

New records of Agromyzidae (Diptera) from Switzerland and an updated checklist

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Abstract

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Here, we investigate about 5500 previously unidentified specimens from the collection of Gerhard Bächli. A total of 108 agromyzid species were added to the fauna of Switzerland. Consequently, the species richness of the Swiss agromyzids was increased to 395 species. The checklist of Agromyzidae of Switzerland was updated, and the complete list presented in appendix.

Key Words

Agromyzidae
Diptera
new record
distribution
host plants
Switzerland
checklist

Introduction

The acalyprate Diptera family Agromyzidae (leaf miner flies) is economically important because a rather large number of its species are known to damage crop plants (Spencer 1973). It is one of the largest families in the Order Diptera, containing more than 930 species in Europe and more than 3050 worldwide. However, according to the Swiss Diptera checklist (Martinez 1998) and the three supplements (Merz et al. 2001, 2006; Bächli et al. 2014), only 280 species are listed for Switzerland. This number is obviously rather low and even as much as 20 years ago Martinez (1998), who listed only 140 species, stated that the Swiss fauna was poorly known. Since then, Černý (2005a, 2009, 2013) and Černý and Merz (2005, 2006,

2007, 2012) have improved the situation by studying additional collections.

One of the reasons why agromyzid flies are poorly studied is that in most cases, only males can be identified based on the basis of very laborious preparations of terminalia. In addition, many species have been named solely on the plant species from which they emerged. Many more species lack even this information because they were described on the basis of specimens collected by standard methods, e.g. netting. For most of these species, their ecology and life history remain unknown.

By studying several thousand specimens of the private collection of G. Bächli, we here aim to improve our knowledge on the local agromyzid fauna. Although this significantly enhances our understanding of the Swiss

Agromyzidae, we feel that much more work needs to be done in order to reach a tenable or even tolerable standard of knowledge.

Material and methods

This study is based on about 5500 specimens (mostly male), of more than 300 species, deposited in the collection of GB. Some duplicates are in the private collection of MČ. Most of the specimens were caught by net sweeping from vegetation and from flowers. Some specimens were accidentally found around *Drosophila* banana baits, in canopy beer-wine traps, etc. In such cases, it is unlikely that they were attracted by the bait, but simply represent by-catch. All material was stored at first in alcohol and pinned and dried afterwards. All specimens were collected by GB if not otherwise stated.

Species identification in this group of flies is based almost completely on male genital structures and therefore, females are not taken into account here. In several specimens, it was possible to identify the diagnostic structures of the postabdomen without any preparation. When necessary, male terminalia were studied after detaching them, then softening and macerating the terminalia in hot 10% KOH, washing in water and dissecting the whole abdomen in a droplet of glycerine under a binocular microscope MBS 10-100. After examination, all the parts dis-

sected were placed in a droplet of the medium “glycerin plus gum resin” on a piece of card pinned below the relevant specimen. Some collection details not mentioned on the labels were added in square brackets ([]). All the material examined was identified by MČ. The identifications were based on Černý (1992, 2007a,b), Griffiths (1963, 1967, 1972a,b, 1973, 1974, 1976a,b, 1977, 1980), Hendel (1920, 1924, 1931–36), Hering (1925, 1926, 1927, 1928, 1931, 1932), Papp and Černý (2015, 2016, 2017), and Spencer (1964, 1966a,b, 1969, 1972, 1976, 1977, 1990).

The nomenclature used for the Agromyzidae was based on Fauna Europaea (Martinez 2013) and Papp and Černý (2015, 2016, 2017). The host plants were treated according to Spencer (1973, 1990) and Benavent-Corai et al. (2005).

Genera and species were arranged alphabetically in the two subfamilies Agromyzinae and Phytomyzinae.

For host plants, names of genera are given when, as far known, all respective species were found to be involved. Mentioning early stages may refer to eggs, larvae or puparia.

The localities were grouped according to cantons (districts) of Switzerland (Fig. 1) and the following abbreviations used: **AG** = Aargau; **BE** = Bern; **BL** = Basel-Landschaft; **GE** = Genève; **GL** = Glarus; **GR** = Graubünden; **JU** = Jura; **LU** = Luzern; **NE** = Neuchâtel; **SH** = Schaffhausen; **SO** = Solothurn; **SZ** = Schwyz; **TG** = Thurgau; **TI** = Ticino; **UR** = Uri; **VD** = Vaud; **VS** = Valais; **ZG** = Zug; **ZH** = Zürich.

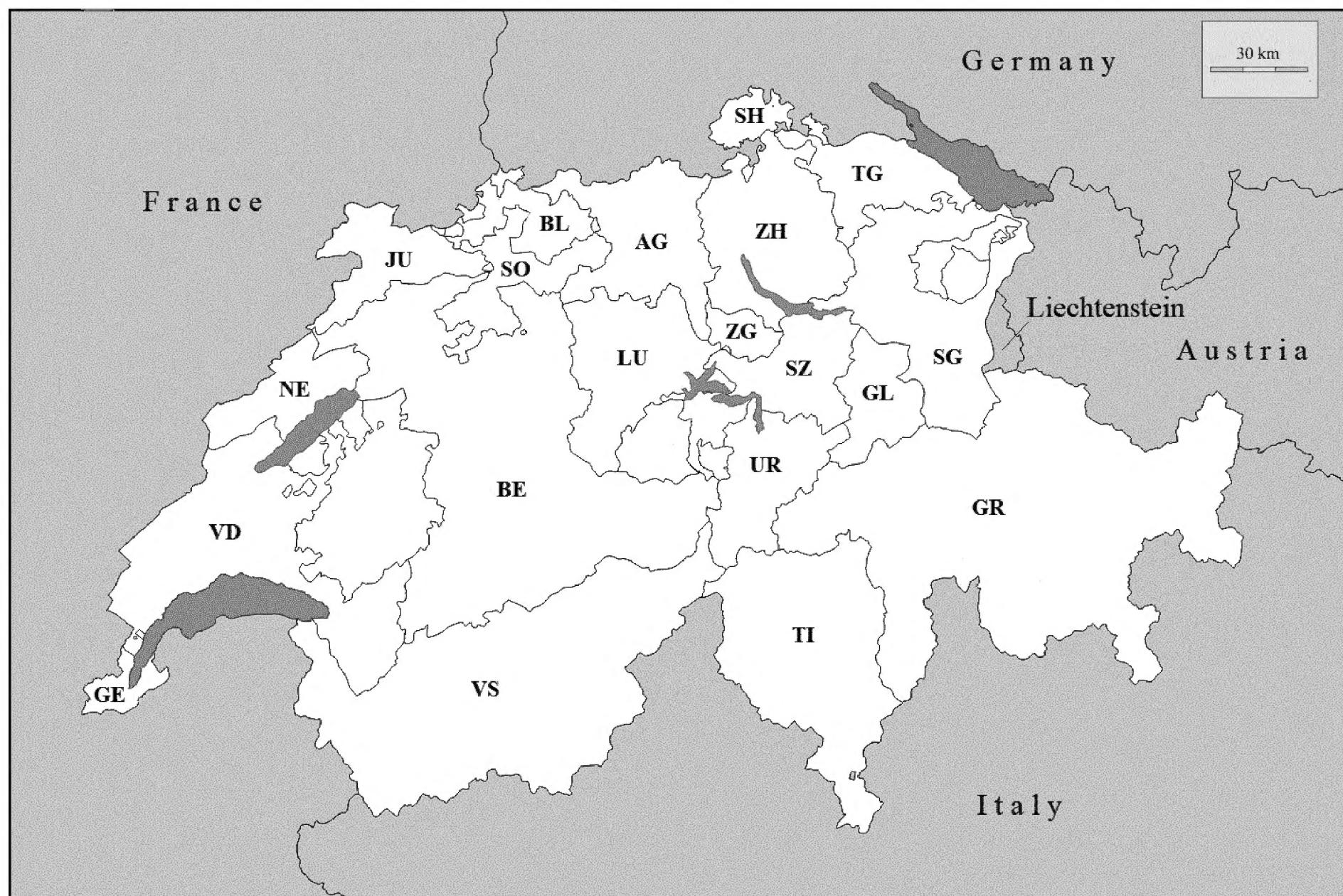


Figure 1. Map showing all the cantons in Switzerland sampled.

List of species

Subfamily Agromyzinae

Agromyza albatarsis Meigen, 1830

Material examined. AG: Würenlingen [47°32'N, 8°16'E, 420m a.s.l., banana bait], 1 ♂, 6.–11.vi.1973.

Distribution. Europe: Albania, Austria, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece (Černý 2011), Hungary (Papp and Černý 2015), Italy, Lithuania, Netherlands, Norway, Poland, Slovakia, Sweden; Asia: Japan, Turkey. First record from Switzerland.

Biology. Host plants *Populus*, *Salix*.

Agromyza anderssoni Spencer, 1976

Material examined. TI: Biasca [46°21'N, 8°58'E, 300m a.s.l., banana bait], 1 ♂, 16.–20.vi.1995; Bolle di Magadino [46°09'N, 8°52'E, 200m a.s.l., tent trap], 1 ♂, 17.–20.vi.1995, B. Merz & G. Bächli leg.

Distribution. Europe: Czech Republic, Estonia, Hungary, Slovakia, Sweden; Asia: South Korea, Turkey (Papp and Černý 2015). First record from Switzerland.

Biology. Host plant unknown.

Agromyza conjuncta Spencer, 1966

Material examined. GR: Scuol [46°48'N, 10°18'E, 1200m a.s.l., banana bait], 1 ♂, 9.–12.viii.1978; Zerne-Gondas [46°42'N, 10°06'E, 1500m a.s.l., banana bait], 1 ♂, 4.–7.viii.1996, B. Merz & G. Bächli leg. VS: Baltschieder [46°18'N, 7°52'E, 650m a.s.l.], 1 ♂, 17.vi.1996, B. Merz & G. Bächli leg.; Riederalp [46°23'N, 8°02'E, 2050m a.s.l., banana bait], 1 ♂, 31.vii.–8.viii.1976. ZH: Hönggerberg [47°25'N, 8°30'E, 520m a.s.l., banana bait], 1 ♂, 3.–7.vii.1998.

Distribution. Europe: Belgium, Czech Republic, France, Germany, Great Britain, Greece incl. Crete, Hungary, Italy incl. Sicily, Poland, Portugal (Černý et al. 2018), Serbia, Slovakia, Spain, Sweden (Papp and Černý 2015). First record from Switzerland.

Biology. Host plant unknown.

Agromyza drepanura (Mamonov, 1929)

Material examined. AG: Würenlingen, Bärengraben [47°31'N, 8°15'E, 420m a.s.l.], 1 ♂, 13.v.1998. GR: S-chanf-Flin [46°36'N, 9°59'E, 1650m a.s.l.], 1 ♂, 7.viii.1996, B. Merz & G. Bächli leg.; Zuoz-Nüd [46°36'N, 9°58'E, 1700m a.s.l.], 1 ♂, 7.viii.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Czech Republic, France, Germany, Hungary, Russia, Ukraine; Asia: Armenia, Kazakhstan, Kyrgyzstan, Uzbekistan (Nartshuk and von Tschirnhaus 2017, Papp and Černý 2015). First record from Switzerland.

Biology. Host plant *Medicago sativa*.

Agromyza filipendulae Spencer, 1976

Material examined. AG: Rheinfelden [47°33'N, 7°48'E, 270m a.s.l.], 1 ♂, 12.vi.2010. GE: Jussy, Prés de Villette, 475m a.s.l., [46°14'N, 6°16'E], 1 ♂, 8.viii.2000, B. Merz & G. Bächli leg. LU: Luzern [47°01'N, 8°19'E, 440m a.s.l.], 1 ♂, 10.vi.2006.

Distribution. Europe: Czech Republic, Germany, Great Britain, France, Hungary, Ireland, Latvia, Lithuania, Montenegro, Poland, Norway; Asia: Asian Russia (Nartshuk and von Tschirnhaus 2017, Papp and Černý 2015). First record from Switzerland.

Biology. Host plants *Filipendula*, *Potentilla*, *Rubus*, *Sanguisorba*.

Agromyza longiphallus L. Papp in Papp & Černý, 2015

Material examined. GR: Zernez [46°42'N, 10°05'E, 1450m a.s.l., banana bait], 2 ♂♂, 15.–18.viii.1978. VS: Riederalp [46°23'N, 8°02'E, 2050m a.s.l., banana bait], 3 ♂♂, 31.vii.–8.viii.1976.

Distribution. Europe: Slovakia. First record from Switzerland.

Biology. Host plant unknown.

Agromyza seticercus L. Papp in Papp & Černý, 2015

Material examined. GE: Chancy [46°09'N, 5°58'E, 350m a.s.l.], 2 ♂♂, 25.vii.2004.

Distribution. Europe: Hungary. First record from Switzerland.

Biology. Host plant unknown.

Agromyza spenceri Griffiths, 1963

Material examined. VS: Grône, Poutafontana, 500m a.s.l., [46°15'N, 7°27'E], 1 ♂, 1.vii.2001; Pfynwald [46°38'N, 7°37'E, 600m a.s.l., canopy trap], 1 ♂, 2.–6.viii.1999.

Distribution. Europe: Bulgaria, Czech Republic, France, Hungary, Italy, Lithuania, Poland, Portugal (Černý et al. 2018), Republica of Malta, Spain; Africa: Morocco; Asia: Turkey, Uzbekistan (Černý 2013, Papp and Černý 2015). First record from Switzerland.

Biology. Host plant *Phragmites australis*.

***Agromyza woerzi* Groschke & Hering, 1957**

Material examined. **GR:** Santa Maria, Müstair, 1850m a.s.l., [46°36'N, 10°25'E], 1 ♂, 23.vi.2017.

Distribution. Europe: Belarus, Czech Republic, Germany, Latvia, Lithuania, Norway, Poland, Slovakia; Asia: Turkey (Dursun *et al.* 2015, Papp and Černý 2015). First record from Switzerland.

Biology. Host plants *Knautia arvensis*, *K. drymeia*.

***Hexomyza cecidogena* (Hering, 1927)**

Material examined. **TI:** Biasca [46°21'N, 8°58'E, 300m a.s.l., banana bait], 3 ♂♂, 16.–20.vi.1995, B. Merz & G. Bächli leg.

Distribution. Europe: Austria, Belgium, Czech Republic, Denmark, France, Germany, Hungary, Italy, Lithuania, Poland, Portugal (Černý *et al.* 2018), Slovakia, Ukraine; Asia: China, Japan (Papp and Černý 2015). First record from Switzerland.

Biology. Host plants *Salix aurita*, *S. repens*.

***Melanagromyza arnicarum* Hering, 1942**

Material examined. **GR:** Dischmatal [46°45'N, 9°54'E, 1600m a.s.l.], 1 ♂, 16.–30.vi.1990, 1 ♂, 22.v.1991, P. Brodmann leg.

Distribution. Europe: Denmark, Germany, Italy, Lithuania; Asia: China. First record from Switzerland.

Biology. Host plant *Arnica montana*.

***Melanagromyza eriolepidis* Spencer, 1961**

Material examined. **GR:** Tschierv, 1700m a.s.l., [46°38'N, 10°20'E], 1 ♂, 27.vi.2015.

Distribution. Europe: Germany, Great Britain. First record from Switzerland.

Biology. Host plant *Cirsium eriophorum*.

***Melanagromyza eupatorii* Spencer, 1957**

Material examined. **GE**, Chancy [46°09'N, 5°58'E, 350m a.s.l.], 1 ♂, 25.vii.2004. **NE:** St. Blaise, Les Rièdes [47°01'N, 6°59'E, 440m a.s.l.], 1 ♂, 19.v.2001. **VS:** Visp [46°18'N, 7°53'E, 650m a.s.l.], 1 ♂, 2001, P. Duelli leg.

Distribution. Europe: Czech Republic, France, Germany, Great Britain, Hungary, Lithuania, Montenegro, Poland, Slovakia, Spain (Papp and Černý 2015). First record from Switzerland.

Biology. Host plants *Eupatorium*, *Senecio*, *Inula*, *Chrysanthemum*.

***Melanagromyza nibletti* Spencer, 1957**

Material examined. **LU:** Luzern [47°01'N, 8°19'E, 440m a.s.l.], 1 ♂, 10.vi.2006.

Distribution. Europe: Czech Republic, Great Britain, Spain (Papp and Černý 2015). First record from Switzerland.

Biology. Host plant *Silaum silaus*.

***Melanagromyza pubescens* Hendel, 1923**

Material examined. **GE:** Chancy [46°09'N, 5°58'E, 350m a.s.l.], 1 ♂, 25.vii.2004. **TI:** Biasca [46°21'N, 8°58'E, 300m a.s.l.], 1 ♂, 17.vi.1995, B. Merz & G. Bächli leg. **VS:** Grône, Poutafontana, 500m a.s.l., [46°15'N, 7°27'E], 1 ♂, 1.vii.2001; Leuk-Platten [46°19'N, 7°42'E, 600m a.s.l.], 2 ♂♂, 1.viii.1998, 1 ♂, 3.viii.1998, 1 ♂, 19.v.1996, B. Merz & G. Bächli leg.; Pfynwald [46°38'N, 7°37'E, 600m a.s.l., canopy trap], 1 ♂, 2.–6.viii.1999, B. Merz & G. Bächli leg.

Distribution. Europe: Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, Germany, Great Britain, Greece, Hungary, Italy, Lithuania, Poland, Portugal (Černý *et al.* 2018), Romania, Russia, Spain, Sweden, Ukraine; Asia: Asian Russia, China, Japan, Mongolia, Nepal, North Korea, Kuril Islands, Turkey (Papp and Černý 2015). First record from Switzerland.

Biology. Host plant *Artemisia vulgaris*.

***Melanagromyza sativae* Spencer, 1957**

Material examined. **GE:** Dardagny, 400m a.s.l., [46°12'N, 6°00'E], 1 ♂, 11.viii.2000, B. Merz & G. Bächli leg. **GR:** Santa Maria [Müstair], 1850m a.s.l., [46°36'N, 10°25'E], 2 ♂♂, 26.vi.2015; Sur, 1600m a.s.l., [46°31'N, 9°38'E], 3 ♂♂, 3.vi.2000; Tschlin, 1500m a.s.l., [46°52'N, 10°26'E], 1 ♂, 25.vi.2016. **VS:** Baltschieder [46°18'N, 7°52'E, 650m a.s.l.], 1 ♂, 17.vi.1996; Pfynwald [46°38'N, 7°37'E, 600m a.s.l.], 1 ♂, 15.v.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Czech Republic, Germany, Great Britain, Greece, Hungary, Lithuania, Slovakia; Asia: Cyprus, Iran, Turkey (Papp and Černý 2015). First record from Switzerland.

Biology. Host plants *Angelica*, *Anthriscus*, *Pastinaca*, *Pimpinella*, *Torilis*.

***Melanagromyza tripolii* Spencer, 1957**

Material examined. **VS:** Baltschieder [46°18'N, 7°52'E, 650m a.s.l.], 1 ♂, 17.v.1996, B. Merz & G. Bächli leg., 1

♂, 24.vi.2000; Pfynwald [46°38'N, 7°37'E, 600m a.s.l.], 1 ♂, 19.vi.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Italy, Netherlands, Slovakia, Spain, Ukraine; Asia: Turkey (Papp and Černý 2015). First record from Switzerland.

Biology. Host plant *Aster tripolium*.

Melanagromyza zlobini Pakalniškis, 1996

Material examined. GR: Santa Maria [Müstair], 1850m a.s.l., [46°36'N, 10°25'E], 3 ♂♂, 26.vi.2015; Sur, 1550m a.s.l., [46°31'N, 9°38'E], 1 ♂, 3.vi.2000.

Distribution. Europe: Czech Republic, Germany, Greece, Hungary, Lithuania (Papp and Černý 2015). First record from Switzerland.

Biology. Host plant unknown.

Ophiomyia alliariae Hering, 1954

Material examined. AG: Würenlingen [47°32'N, 8°16'E, 420m a.s.l.], 1 ♂, 27.vii.2001. GR: Rothenbrunnen [46°46'N, 9°26'E, 630m a.s.l.], 1 ♂, 8.viii.1996, B. Merz & G. Bächli leg. VS: Visp [46°18'N, 7°53'E, 650m a.s.l.], 1 ♂, 2000, P. Duelli leg.

Distribution. Europe: Andorra, Austria, Czech Republic, France, Germany, Great Britain, Greece, Hungary, Italy incl. Sardinia, Latvia, Lithuania, Portugal (Černý et al. 2018), Republica of Malta, Slovakia, Spain, Ukraine (Papp and Černý 2015). First record from Switzerland.

Biology. Host plants *Alliaria*, *Bertorea*, *Brassica*, *Capsella*, *Cardamine*, *Erysimum*, *Raphanus*, *Sinapis*, *Sisymbrium*.

Ophiomyia eucodonus Hering, 1960

Material examined. GR: Nationalpark [46°40'N, 10°12'E, 2000m a.s.l.], 1 ♂, 2005, P. Duelli leg. VS: Jeizinen [46°20'N, 7°44'E, 1500m a.s.l.], 1 ♂, 26.vi.1999; Visperterminen [46°15'N, 7°54'E, 1500m a.s.l.], 1 ♂, 21.vii.2004.

Distribution. Europe: Czech Republic, France, Germany, Hungary, Poland, Russia, Slovakia, Spain (Papp and Černý 2015). First record from Switzerland.

Biology. Host plants *Campanula* spp.

Ophiomyia hungarica Černý in Papp & Černý, 2015

Material examined. VS: Baltschieder [46°15'N, 7°54'E, 650m a.s.l.], 1 ♂, 17.vi.1996, B. Merz & G. Bächli leg;

Visperterminen, 1400m a.s.l., [46°15'N, 7°54'E], 1 ♂, 31.vii.1998, B. Merz & G. Bächli leg.

Distribution. Europe: Hungary. First record from Switzerland.

Biology. Host plant unknown.

Ophiomyia maura (Meigen, 1838)

Material examined. AG: Würenlingen [47°32'N, 8°16'E, 420m a.s.l.], 1 ♂, 6.vii.2000. VS: Pfynwald [46°38'N, 7°37'E, 600m a.s.l.], 1 ♂, 19.v.1996, B. Merz & G. Bächli leg.

Distribution. North America: Canada; Europe: Andorra, Austria, Belarus, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Italy incl. Sicily, Latvia, Lithuania, Netherlands, Norway, Poland, Russia, Slovakia, Spain incl. Canary Islands, Sweden, Ukraine, former Yugoslavia; Asia: China, Japan, Oman, Turkey, Yemen (Papp and Černý 2015). First record from Switzerland.

Biology. Host plants *Aster*, *Erigeron*, *Solidago*.

Ophiomyia mohelensis Černý, 1994

Material examined. GR: Nationalpark [46°40'N, 10°12'E, 2000m a.s.l.], 1 ♂, 2004, P. Duelli leg.

Distribution. Europe: Czech Republic, Hungary, Ukraine (Papp and Černý 2015). First record from Switzerland.

Biology. Host plant unknown.

Ophiomyia pannonica Černý in Papp & Černý 2015

Material examined. AG: Würenlingen [47°32'N, 8°16'E, 420m a.s.l.], 3 ♂♂, 6.–11.vi.1973 [banana bait], 3 ♂♂, 14.viii.1997, 1 ♂, 31.viii.1999. TI: Cardada, Alpe, 1500m a.s.l., [46°12'N, 8°48'E], 1 ♂, 23.viii.2013. ZH: Flaach [47°35'N, 8°37'E, 350m a.s.l.], 1 ♂, 7.viii.2001.

Distribution. Europe: Hungary, Slovakia. First record from Switzerland.

Biology. Host plant unknown.

Ophiomyia rostrata (Hendel, 1920)

Material examined. VS: Leuk-Rotafen [46°19'N, 7°41'E, 850m a.s.l.], 1 ♂, 16.v.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Austria, Bulgaria, Czech Republic, France, Germany, Great Britain, Hungary, Lithuania,

Netherlands, Poland, Spain; Asia: Uzbekistan (Papp and Černý 2015). First record from Switzerland.

Biology. Host plant *Convolvulus arvensis*.

***Ophiomyia vanyushai* Guglya, 2014**

Material examined. GR: Zernez [46°42'N, 10°05'E, 1450m a.s.l.], 1 ♂, 6.viii.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Ukraine. First record from Switzerland.

Biology. Host plant unknown.

Subfamily Phytomyzinae

***Amauromyza (Cephalomyza) karli* (Hendel, 1927)**

Material examined. VS: Baltschieder [46°18'N, 7°52'E, 650m a.s.l.], 1 ♂, 2.viii.1998, B. Merz & G. Bächli leg.; Pfynwald [46°38'N, 7°37'E, 600m a.s.l., canopy trap], 1 ♂, 3.–6.viii.1999.

Distribution. North America: Canada; Europe: Czech Republic, Finland, France, Germany, Greece, Hungary, Poland, Romania, Spain, Sweden; Asia: Mongolia (Papp and Černý 2016). First record from Switzerland.

Biology. Host plant unknown.

***Amauromyza (Cephalomyza) luteiceps* (Hendel, 1920)**

Material examined. GE: Cartigny, Moulin de Vert, 350m a.s.l., [46°11'N, 6°01'E], 1 ♂, 6.viii.2000, B. Merz & G. Bächli leg.

Distribution. North America: Canada; Europe: Belgium, Czech Republic, Great Britain, Denmark, Finland, France, Germany, Greece, Lithuania, Netherlands, Poland, Portugal (Černý et al. 2018), Republica of Malta, Spain, Sweden, Norway; Asia: Iran, Turkey (Papp and Černý 2016, Ranji et al. 2015). First record from Switzerland.

Biology. Host plant *Atriplex calotheca*.

***Cerodontha (Butomomyza) caricivora* (Groschke, 1954)**

Material examined. AG: Würenlingen [47°32'N, 8°16'E, 420m a.s.l., banana bait], 2 ♂♂, 6.–11.vi.1973. VS: Morgins, Vieze [46°14'N, 6°51'E, 1400m a.s.l.], 1 ♂, 27.vii.2004.

Distribution. Europe: Austria, Belgium, Denmark, Estonia, Finland, Germany, Hungary, Poland, Slovakia, Sweden; Asia: Japan (Papp and Černý 2016). First record from Switzerland.

Biology. Host plants *Carex* spp.

***Cerodontha (Butomomyza) falcata* Černý in Papp & Černý, 2016**

Material examined. TI: Biasca [46°21'N, 8°58'E, 300m a.s.l.], 1 ♂, 17.vi.1995. ZH: Marthalen [47°38'N, 8°39'E, 370m a.s.l.], 2 ♂♂, 8.vi.2008, B. Merz & G. Bächli leg.

Distribution. Europe: Czech Republic, Hungary. First record from Switzerland.

Biology. Host plant unknown.

***Cerodontha (Butomomyza) mellita* Spencer, 1971**

Material examined. SZ: Alphthal [47°04'N, 8°43'E, 1150m a.s.l.], 1 ♂, 2001, P. Duelli leg.

Distribution. Europe: Belgium, Czech Republic, Great Britain, Poland, Portugal (Černý et al. 2018), Slovakia (Papp and Černý 2016). First record from Switzerland.

Biology. Host plants *Carex* spp.

***Cerodontha (Butomomyza) pseuderrans* (Hendel, 1931)**

Material examined. AG: Rottenschwil [47°19'N, 8°22'E, 390m a.s.l.], 1 ♂, 14.vi.2008; Wohlen [47°21'N, 8°18'E, 450m a.s.l.], 1 ♂, 21.v.2011. GE: Dardagny, Es-sertines, 400m a.s.l., [46°12'N, 6°00'E], 1 ♂, 11.viii.2000; Jussy, Prés de Villette, 475m a.s.l., [46°14'N, 6°16'E], 1 ♂, 8.viii.2000, all B. Merz & G. Bächli leg. LU: Luzern [47°01'N, 8°19'E, 440m a.s.l.], 1 ♂, 10.vi.2006. ZH: Sihlwald [47°16'N, 8°33'E, 550m a.s.l.], 2 ♂♂, 16.viii.1997.

Distribution. Europe: Andorra, Austria, Czech Republic, Denmark, Germany, Great Britain, Greece, Hungary, Italy, Lithuania, Poland, Sweden; Asia: Turkey, Japan (Papp and Černý 2016). First record from Switzerland.

Biology. Host plant *Carex hirta*.

***Cerodontha (Cerodontha) alpestris* Martinez, 1987**

Material examined. GR: Santa Maria [Müstair], 1850 m a.s.l., [46°36'N, 10°25'E], 1 ♂, 26.vi.2015; S-chanf-Flin [46°36'N, 9°59'E, 1650 m a.s.l.], 1 ♂, 7.viii.1996, B. Merz & G. Bächli leg.; Zernez-Gondas [46°42'N, 10°06'E, 1500 m a.s.l.], 1 ♂, 4.–8.viii.1996, B. Merz & G. Bächli leg.

Distribution. Europe: France, Germany, Italy (Černý 2013). First record from Switzerland.

Biology. Host plant unknown.

***Cerodontha (Cerodontha) coxalis* Martinez, 1987**

Material examined. GR: Santa Maria [46°36'N, 10°25'E, Müstair], 1850m a.s.l., 2 ♂♂, 26.vi.2015. ZH:

Dietikon [47°24'N, 8°24'E, 390m a.s.l., banana bait] 1 ♂, 16.–20.vii.1992.

Distribution. Europe: Czech Republic, France, Hungary, Romania (Papp and Černý 2016). First record from Switzerland.

Biology. Host plant unknown.

***Cerodontha (Cerodontha) phragmitophila* Hering, 1935**

Material examined. LU: Luzern [47°01'N, 8°19'E, 440m a.s.l.], 1 ♂, 10.vi.2006. VS: Grône, Poutafontana [46°15'N, 07°27'E, 520m a.s.l.], 1 ♂, 18.v.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Belgium, Bulgaria, Croatia, Czech Republic, France incl. Corsica, Great Britain, Greece, Hungary, Italy, Poland, Portugal (Černý et al. 2018), Spain incl. Canary Islands, former Yugoslavia; Africa: Egypt; Asia: Cyprus, Israel, Kazakhstan, Pakistan, Uzbekistan (Papp and Černý 2016). First record from Switzerland.

Biology. Host plants *Arundo*, *Phragmites*.

***Cerodontha (Dizygomyza) brisiaca* Nowakowski, 1973**

Material examined. GL: Elm, Wichlen, 1300m a.s.l., [46°55'N, 9°10'E], 1 ♂, 15.viii.2001. GR: Marmorera, 1600m a.s.l., [46°31'N, 9°38'E], 1 ♂, 2.vi.2000; Santa Maria, Müstair, 1850m a.s.l., [46°36'N, 10°25'E], 1 ♂, 23.vi.2017; Sur, 1600m a.s.l., [46°31'N, 9°38'E], 1 ♂, 2.vi.2000; Tinizong, 1350m a.s.l., [46°35'N, 9°37'E], 1 ♂, 4.viii.2007. TG: Lommis, Immenberg [47°32'N, 8°59'E, 700m a.s.l.], 1 ♂, 4.viii.2007. TI: Acquacalda [46°33'N, 8°49'E, 1750m a.s.l.], 2 ♂♂, 22.–24.vi.2001.

Distribution. Europe: Austria, Czech Republic, Germany, Lithuania, Poland; Africa: Morocco (Papp and Černý 2016). First record from Switzerland.

Biology. Host plant unknown.

***Cerodontha (Dizygomyza) chaixiana* (Hering, 1956)**

Material examined. AG: Würenlingen [47°32'N, 8°16'E, 420m a.s.l., banana bait], 6 ♂♂, 6.–11.vi.1973. GR: Nationalpark [46°40'N, 10°12'E, 2000m a.s.l.], 1 ♂, 2004, P. Duelli leg.; Tschlin, 1600m a.s.l., [46°52'N, 10°26'E], 1 ♂, 24.vi.2016. LU: Luzern [47°01'N, 8°19'E, 440m a.s.l.], 1 ♂, 10.vi.2006. NE: Marin, Les Tertres, [47°28'N, 6°59'E, 450m a.s.l.], 1 ♂, 19.v.2001. TI: Acquacalda [46°33'N, 8°49'E, 1750m a.s.l.], 1 ♂, 17.–20.vii.1998. VS: Grône, Poutafontana [46°15'N, 7°27'E, 520m a.s.l.], 1 ♂, 18.vi.1996, B. Merz & G. Bächli leg. ZH: Dietikon [47°24'N, 8°24'E, 390m a.s.l., banana bait], 1 ♂, 10.–14.viii.1982, 1 ♂, 19.–23.vii.1990, 1 ♂, 16.–20.vii.1992; Hönggerberg [47°25'N,

8°30'E, 520m a.s.l., banana bait], 1 ♂, 2.–6.viii.1997, 1 ♂, 3.–7.vii.1998, 1 ♂, 29.vi.–3.vii.1999, 1 ♂, 3.–7.vii.2000, 1 ♂, 19.vii.2008, 1 ♂, 1.vii.2011; Sihlwald [47°16'N, 8°33'E, 550m a.s.l.], 1 ♂, 16.viii.1997.

Distribution. Europe: Czech Republic, Germany, Hungary, Poland (Papp and Černý 2016). First record from Switzerland.

Biology. Host plants *Poa* spp.

***Cerodontha (Dizygomyza) hirtae* Nowakowski, 1967**

Material examined. LU: Luzern [47°01'N, 8°19'E, 440m a.s.l.], 1 ♂, 10.vi.2006.

Distribution. North America: United States; Europe: Austria, Belgium, Czech Republic, Germany, Greece, Hungary, Netherlands, Poland, Slovakia (Papp and Černý 2016). First record from Switzerland.

Biology. Host plants *Carex* spp.

***Cerodontha (Dizygomyza) silvatica* (Groschke & Hering, 1957)**

Material examined. GR: Dischmatal [46°45'N, 9°54'E, 1600m a.s.l.], 1 ♂, 1.–20.viii.1991, P. Brodmann leg. VS: Riedererp [46°23'N, 8°02'E, 2050m a.s.l., banana bait], 2 ♂♂, 31.vii.–8.viii.1976.

Distribution. Europe: Czech Republic, Germany, Great Britain, Hungary, Poland (Papp and Černý 2016). First record from Switzerland.

Biology. Host plant *Luzula sylvatica*.

***Cerodontha (Icteromyza) rozkosnyi* Černý, 2007**

Material examined. TI: Bolle di Magadino, [46°09'N, 8°52'E, 200m a.s.l.], 1 ♂, 9.viii.1997.

Distribution. Europe: Czech Republic, Greece, Hungary, Romania; Africa: Morocco; Asia: Israel, Turkey (Dursun et al. 2015, Papp and Černý 2016). First record from Switzerland.

Biology. Host plant unknown.

***Cerodontha (Phytomyza) flavocingulata* (Strobl, 1909)**

Material examined. GR: Santa Maria, Müstair, 1850m a.s.l., [46°36'N, 10°25'E], 1 ♂, 23.vi.2017. VS: Mund, Finnen [1400m a.s.l.], 1 ♂, 21.vi.2014.

Distribution. North America: Canada; Europe: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Estonia,

Finland, France, Germany, Great Britain, Hungary, Latvia, Lithuania, Netherland, Norway, Poland, Romania, Slovakia, Sweden, former Yugoslavia; Asia: Asian Russia – Yakutia (Nartshuk and Bagachanova 2010, Papp and Černý 2016). First record from Switzerland.

Biology. Host plants *Agropyron*, *Agrostis*, *Alopecurus*, *Arrhenatherum*, *Bromus*, *Calamagrostis*, *Dactylis*, *Festuca*, *Holcus*, *Poa*, *Phleum*.

***Cerodontha (Poemyza) morula* (Hendel, 1920)**

Material examined. ZH: Dietikon [47°24'N, 8°24'E, 390m a.s.l., banana bait], 1 ♂, 3.–10.viii.1984; Hönggerberg [47°25'N, 8°30'E, 520m a.s.l.], 1 ♂, 19.vii.2008; Marthalen [47°38'N, 8°39'E, 390m a.s.l.], 1 ♂, 8.vi.2008.

Distribution. Europe: Austria, Czech Republic, Hungary (Papp and Černý 2016). First record from Switzerland.

Biology. Host plant unknown.

***Cerodontha (Poemyza) pygmella* (Hendel, 1931)**

Material examined. GR: Sur, 1600m a.s.l., [46°31'N, 9°38'E], 1 ♂, 3.vi.2000; Tschier, 1700m a.s.l., [46°38'N, 10°20'E], 1 ♂, 27.vi.2015. TI: Acquacalda [46°33'N, 8°49'E, 1750m a.s.l.], 1 ♂, 22.–24.vi.2001; Fusio [46°26'N, 8°39'E, 1300m a.s.l.], 1 ♂, 26.vii.1997; Robiei [46°27'N, 8°31'E, 1900m a.s.l.], 1 ♂, 4.–5.vii.2008. VS: Grône, Poutafontana, 500m a.s.l., [46°15'N, 7°27'E], 1 ♂, 1.vii.2001. ZH: Dietikon [47°24'N, 8°24'E, 390m a.s.l., banana bait], 1 ♂, 3.–7.vii.1998; Flaach [47°35'N, 8°37'E, 350m a.s.l.], 1 ♂, 22.vii.1996.

Distribution. Europe: Czech Republic, Estonia, Denmark, Finland, Germany, Great Britain, Hungary, Lithuania, Norway, Poland, Slovakia, Spain incl. Canary Islands, Sweden; Asia: Iran, Asian Russia – Kamchatka, Kuril Islands (Papp and Černý 2016, Ranji *et al.* 2015). First record from Switzerland.

Biology. Host plants *Calamagrostis*, *Festuca*.

***Cerodontha (Poemyza) thunebergi* Nowakowski, 1967**

Material examined. TG: Weinigen, Ochsenfurt [47°35'N, 8°37'E, 450m a.s.l.], 1 ♂, 29.v.1999. VS: Leuk [46°19'N, 7°38'E, 700m a.s.l., banana bait], 1 ♂, 27.–29.vii.1993; Pfynwald [46°38'N, 7°37'E, 600m a.s.l.], 1 ♂, 2.vi.1999, 580m a.s.l., 1 ♂, 30.vi.–4.vii.2001 [banana bait]. ZH: Flaach [47°35'N, 8°37'E, 350m a.s.l.], 1 ♂, 22.vii.1996; Hönggerberg [47°25'N, 8°30'E, 520m a.s.l., banana bait], 1 ♂, 13.–17.vii.1996.

Distribution. Europe: Belarus, Czech Republic, Finland, France, Germany, Hungary, Lithuania, Slovakia;

Asia: Japan (Papp and Černý 2016). First record from Switzerland.

Biology. Host plant unknown.

***Chromatomyia beigerae* Griffiths, 1980**

Material examined. VS: Oberwald [46°31'N, 8°20'E, 1820m a.s.l., banana bait], 2 ♂♂, 13.–15.viii.1975; Riederalp [46°23'N, 8°02'E, 2050m a.s.l., banana bait], 2 ♂♂, 31.vii.–8.viii.1976.

Distribution. Europe: Germany, Italy, Poland, Slovakia (Černý 2005a, 2013). First record from Switzerland.

Biology. Host plant *Luzula sylvatica*.

***Chromatomyia glacialis* (Griffiths, 1964)**

Material examined. TI: Acquacalda [46°33'N, 8°49'E, 1750m a.s.l.], 1 ♂, 22.–24.vi.2001. VS: Jeizinen, 2000m a.s.l., [46°20'N, 7°44'E], 1 ♂, 3.vii.2001.

Distribution. Europe: Czech Republic, Great Britain, Poland, Sweden. First record from Switzerland.

Biology. Host plant unknown.

***Chromatomyia norwegica* (Rydén, 1957)**

Material examined. AG: Wohlen [47°21'N, 8°18'E, 450m a.s.l.], 1 ♂, 21.v.2011. GR: Alp Flix [46°32'N, 9°38'E, 1830m a.s.l., banana bait], 2 ♂♂, 4.–8.viii.1975; Zuoz-Nüd [46°36'N, 9°58'E, 1700m a.s.l.], 1 ♂, 7.viii.1996, B. Merz & G. Bächli leg. VS: Oberwald [46°31'N, 8°20'E, 1820m a.s.l., banana bait], 2 ♂♂, 13.–15.viii.1975; Riederalp [46°23'N, 8°02'E, 2050m a.s.l., banana bait], 25 ♂♂, 31.vii.–8.viii.1976.

Distribution. North America: Canada, United States; Europe: Czech Republic, Finland, Germany, Latvia (Karpa 2008), Lithuania, Norway, Poland, Slovakia, Sweden. First record from Switzerland.

Biology. Host plants *Arctagrostis*, *Brachypodium*, *Calamagrostis*, *Cinna*, *Deschampsia*, *Melica*.

***Chromatomyia ochracea* (Hendel, 1920)**

Material examined. TI: Acquacalda [46°33'N, 8°49'E, 1750m a.s.l.], 1 ♂, 22.–24.vi.2001. VS: Jeizinen, 2000m a.s.l., [46°20'N, 7°44'E], 1 ♂, 3.vii.2001.

Distribution. Europe: Austria, Czech Republic (Černý *et al.* 2013), Finland, Germany, Poland, Russia, Sweden. First record from Switzerland.

Biology. Host plant unknown.

***Chromatomyia primulae* (Robineau-Desvoidy, 1851)**

Material examined. **GR:** Nationalpark [46°40'N, 10°12'E, 2000m a.s.l.], 1 ♂, 2005, P. Duelli leg.

Distribution. Europe: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Lithuania, Montenegro, Netherlands, Norway, Poland, Spain incl. Canary Islands, Sweden; Asia: Japan. First record from Switzerland.

Biology. Host plants *Primula* spp.

***Chromatomyia rhaetica* Griffiths, 1980**

Material examined. **AG:** Würenlingen [47°32'N, 8°16'E, 420m a.s.l., banana bait], 5 ♂♂, 6.–11.vi.1973. **VS:** Oberwald [46°31'N, 8°20'E, 1820m a.s.l., banana bait], 1 ♂, 13.–15.viii.1975.

Distribution. Europe: Austria, Czech Republic, Slovakia. First record from Switzerland.

Biology. Host plant unknown.

***Chromatomyia spenceriana* Griffiths, 1980**

Material examined. **VS:** Riederalp [46°23'N, 8°02'E, 2050m a.s.l., banana bait], 1 ♂, 31.vii.–8.viii.1976.

Distribution. Europe: Czech Republic, Sweden. First record from Switzerland.

Biology. Host plant unknown.

***Chromatomyia styriaca* Griffiths, 1980**

Material examined. **AG:** Wettingen [47°27'N, 8°21'E, 420m a.s.l.], 2 ♂♂, 18.vii.1996; Würenlingen [47°32'N, 8°16'E, 420m a.s.l.], 1 ♂, 20.vii.1996, 2 ♂♂, 31.viii.1999; 1 ♂, 27.vii.2001. **LU:** Luzern [47°01'N, 8°19'E, 440m a.s.l.], 2 ♂♂, 10.vi.2006. **ZH:** Dietikon [47°24'N, 8°24'E, 390m a.s.l., banana bait], 2 ♂♂, 8.–16.vi.1984; Embrach, Haumühle [47°31'N, 8°36'E, 400m a.s.l.], 3 ♂♂, 9.v.1998; Marthalen [47°38'N, 8°39'E, 390m a.s.l.], 3 ♂♂, 8.vi.2008; Zürichberg [47°24'N, 8°33'E, 600m a.s.l., canopy trap], 1 ♂, 2.–3.vii.1983.

Distribution. Europe: Austria, Czech Republic, Germany, Finland, Latvia, Lithuania, Poland, Slovakia, Sweden. First record from Switzerland.

Biology. Host plant unknown.

***Chromatomyia succisae* (Hering, 1922)**

Material examined. **AG:** Rottenschwil [47°19'N, 8°22'E, 390m a.s.l.], 1 ♂, 14.vi.2008. **VD:** Changins [46°24'N,

6°14'E, 430m a.s.l.], 1 ♂, 2000, P. Duelli leg. **VS:** Pfynwald [46°38'N, 7°37'E, 600m a.s.l., canopy trap], 1 ♂, 2.–6.viii.1999.

Distribution. Europe: Andorra, Denmark, France, Germany, Great Britain, Ireland, Italy, Lithuania, Netherlands, Poland, Sweden; Asia: Cyprus, Israel, Turkey, Uzbekistan (Černý 2007b, 2009, Černý and Merz 2006, Zlobin 2005). First record from Switzerland.

Biology. Host plants *Dipsacus*, *Knautia*, *Succisa*.

***Chromatomyia tschirnhausi* Griffiths, 1980**

Material examined. **GL:** Klöenthal [47°01'N, 8°57'E, 850m a.s.l., banana bait], 1 ♂, 11.–14.ix.1974. **GR:** Dischmatal [46°45'N, 9°54'E, 1600m a.s.l.], Net, 2 ♂♂, 16.–30.vi.1990, 1 ♂, 16.–31.vii.1991, 1 ♂, 1.–20.viii.1991, all P. Brodmann leg. **UR:** Furkapass, ALPFOR area, [46°35'N, 8°25'E, 2500m a.s.l.], 3 ♂♂, 25.vii.2012.

Distribution. Europe: Austria, Czech Republic, Poland, Norway, Slovakia (Černý *et al.* 2009, Černý and Farkač 2004). First record from Switzerland.

Biology. Host plant unknown.

***Liriomyza aculeolata* Zlobin, 2003**

Material examined. **GR:** Santa Maria, Müstair, 1850m a.s.l., [46°36'N, 10°25'E], 1 ♂, 23.vi.2017. **VS:** Jeizinen [46°20'N, 7°44'E, 1250m a.s.l.], 1 ♂, 26.vi.1999.

Distribution. Europe: Hungary, Russia, Spain, Sweden, Ukraine (Papp and Černý 2017, Zlobin 2005). First record from Switzerland.

Biology. Host plant unknown.

***Liriomyza amoena* (Meigen, 1830)**

Material examined. **SO:** Messen [47°06'N, 7°27'E, 510m a.s.l.], 1 ♂, 15.iii.2004, B. Wermelinger leg.

Distribution. Europe: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Ireland, Italy, Latvia, Lithuania, Madeira Islands, Moldavia, Netherlands, Poland, Romania, Slovakia, Spain, Sweden; Asia: Turkey, Japan, India (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Sambucus* spp.

***Liriomyza buhri* Hering, 1937**

Material examined. **GR:** Dischmatal [46°45'N, 9°54'E, 1600m a.s.l.], 1 ♂, 22.v.1991, 1 ♂, 16.–31.vii.1991, P.

Brodmann leg. **TI**: Cardada, Gimetta, 1700m a.s.l., [46°12'N, 8°48'E], 1 ♂, 24.viii.2013; Robiei [46°27'N, 8°31'E, 1900m a.s.l.], 2 ♂♂, 4.–5.vii.2008; Val Bavona [46°24'N, 8°34'E, 600m a.s.l.], 1 ♂, 27.vii.1997. **UR**: Furkapass, ALPFOR Area, [46°35'N, 8°25'E, 2500m a.s.l.], 1 ♂, 25.vii.2012. **VS**: Jeizinen, 2000m a.s.l., [46°20'N, 7°44'E], 1 ♂, 3.vii.2001; Morgins, Porte de Culet [46°13'N, 6°52'E, 1700m a.s.l.], 3 ♂♂, 28.vii.2004; Pfynwald [46°38'N, 7°37'E, 600m a.s.l.], 1 ♂, 15.v.1996, B. Merz & G. Bächli leg. **ZH**: Marthalen [47°38'N, 8°39'E, 390m a.s.l.], 2 ♂♂, 8.vi.2008.

Distribution. Europe: Czech Republic, Denmark, Estonia, Finland, France, Germany, Lithuania, Montenegro, Norway, Poland, Slovakia, Sweden; Asia: Asian Russia – Yakutia, Turkey (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Campanula*, *Jasione*, *Phyteuma*.

Liriomyza centaureae Hering, 1927

Material examined. **SH**: Merishausen [47°46'N, 8°37'E, 540m a.s.l.], 1 ♂, 9.viii.1999. **SZ**: Biberbrugg [47°09'N, 8°43'E, 860m a.s.l.], 1 ♂, 25.vi.2011.

Distribution. Europe: Croatia, Czech Republic, Denmark, Estonia, France, Germany, Great Britain, Hungary, Italy, Latvia, Lithuania, Poland, Slovakia, Spain, Sweden; Asia: Asian Russia – Yakutia, Turkey (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Centaurea* spp.

Liriomyza dendranthema Nowakowski, 1975

Material examined. **GR**: Davos [46°48'N, 9°50'E, 2550m a.s.l.], 1 ♂, 2000, 1 ♂, 2001, 1 ♂, 2004, 2 ♂♂, 2006, all P. Duelli leg. **VS**: Zeneggen [46°16'N, 7°52'E, 1400m a.s.l.], 1 ♂, 22.v.2014.

Distribution. Europe: Poland. First record from Switzerland.

Biology. Host plant unknown.

Liriomyza europaea Zlobin, 2003

Material examined. **VS**: Jeizinen, 2000m a.s.l., [46°20'N, 7°44'E], 1 ♂, 3.vii.2001.

Distribution. Europe: Czech Republic, Great Britain, Greece, Sweden (Papp and Černý 2017). First record from Switzerland.

Biology. Host plant unknown, the species belongs to the *L. flaveola* group, known as grass miners.

Liriomyza graminivora Hering, 1949

Material examined. **VS**: Grône, Poutafontana, 500m a.s.l., [46°15'N, 7°27'E], 3 ♂♂, 18.v.1996, B. Merz & G. Bächli leg., 3 ♂♂, 1.vii.2001, 3 ♂♂, 1.vii.2001, B. Merz & G. Bächli leg.; Leuk [46°19'N, 7°38'E, 600m a.s.l., banana bait], 1 ♂, 23.viii.–2.ix.1977. **ZH**: Flaach [47°35'N, 8°37'E, 350m a.s.l.], 22 ♂♂, 30.vi.2000; Marthalen [47°38'N, 8°39'E, 390m a.s.l.], 3 ♂♂, 8.vi.2008.

Distribution. Europe: Czech Republic, Germany, Hungary, Lithuania, Romania, Russia, Slovakia, Spain; Asia: Uzbekistan (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Arrhenatherum*, *Festuca*, *Hordeum*, *Poa*.

Liriomyza hampsteadensis Spencer, 1971

Material examined. **AG**: Habsburg [47°28'N, 8°11'E, 490m a.s.l.], 1 ♂, 9.viii.2004; 1 ♂, 16.viii.2004, 1 ♂, 23.viii.2004; Sarmenstorf [47°19'N, 8°15'E, 580m a.s.l.], 1 ♂, 9.viii.2004, 1 ♂, 6.ix.2004, all B. Wermelinger leg. **GR**: Lenzerheide [46°43'N, 9°33'E, 1550m a.s.l.], 1 ♂, 8.viii.1998; Lüsai, 1800m a.s.l., [46°37'N, 10°22'E], 1 ♂, 24.vi.2017. **GR**: Rothenbrunnen [46°46'N, 9°26'E, 630m a.s.l.], 1 ♂, 8.viii.1996, B. Merz & G. Bächli leg. **SO**: Messen [47°06'N, 7°27'E, 510m a.s.l.], 1 ♂, 9.viii.2004; 1 ♂, 14.ix.2004, all B. Wermelinger leg. **ZH**: Embrach, Haumühle [47°31'N, 8°36'E, 400m a.s.l.], 1 ♂, 9.v.1998. **ZH**: Uitikon [47°22'N, 8°27'E, 540m a.s.l.], 1 ♂, 2001, 1 ♂, 2004; Rafz [47°19'N, 8°35'E, 410m a.s.l.], 1 ♂, 2004, all P. Duelli leg.

Distribution. Europe: Belgium, Czech Republic, Germany, Great Britain, Greece, Hungary, Italy, Lithuania; Africa: Egypt (Papp and Černý 2017). First record from Switzerland.

Biology. Host plant *Achillea millefolium*.

Liriomyza hieracivora Spencer, 1971

Material examined. **TI**: Bolle, Magagadino [46°09'N, 8°52'E, 200m a.s.l.], 1 ♂, 2005, P. Duelli leg. **ZH**: Zürich [47°23'N, 8°33'E, 430m a.s.l.], 1 ♂, 24.vi.–5.viii.2006, Th. Sattler leg.

Distribution. Europe: Czech Republic, Denmark, Germany, Hungary, Lithuania, Poland, Sweden; Asia: Asian Russia – Yakutia, Turkey (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Hieracium* spp.

Liriomyza infuscata Hering, 1926

Material examined. **GR**: Alp Flix, 1950m a.s.l., [46°32'N, 9°38'E], 1 ♂, 2.vi.2000, G. Bächli leg.; Mar-

morera, 1600m a.s.l., [46°31'N, 9°38'E, 1 ♂, 2.vi.2000; Nationalpark [46°40'N, 10°12'E, 2000m a.s.l.], 1 ♂, 2005, P. Duelli leg.]; Sur, 1600m a.s.l., [46°31'N, 9°38'E], 3 ♂♂, 3.vi.2000; Tinizong, 1350m a.s.l., [46°35'N, 9°37'E], 1 ♂, 2.vi.2000. **VD**: Changins [46°24'N, 6°14'E, 430m a.s.l.], 1 ♂, 2004, P. Duelli leg. **VS**: Leuk [46°19'N, 7°38'E, 700m a.s.l., banana bait], 2 ♂♂, 23.viii.–2.ix.1977.

Distribution. Europe: Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Latvia, Lithuania, Norway, Poland, Portugal (Černý et al. 2018), Russia, Slovakia, Spain, Sweden, Ukraine; Asia: Asian Russia – West and East Siberia, Mongolia (Papp and Černý 2017). First record from Switzerland.

Biology. Host plant unknown, but this species is surely a grass miner.

Liriomyza lituanica Pakalniškis, 1992

Material examined. **GE**: Jussy, Prés de Villette, 475m a.s.l., [46°14'N, 6°16'E], 1 ♂, 8.viii.2000; Russin, Biolay, 360m a.s.l., [46°11'N, 6°01'E], 1 ♂, 9.viii.2000, all B. Merz & G. Bächli leg. **VD**: Cudrefin [46°57'N, 7°01'E, 430m a.s.l.], 1 ♂, 2001, P. Duelli leg.

Distribution. Europe: Czech Republic, Hungary, Italy, Latvia, Lithuania; Asia: North Korea (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Peucedanum*, *Selinum*.

Liriomyza muranica Černý, 2012

Material examined. **VS**: Mund, Finnen [46°19'N, 7°54'E, 1400m a.s.l.], 6 ♂♂, 21.vi.2014; Visperterminen [46°15'N, 7°54'E, 1550m a.s.l.], 1 ♂, 21.vii.2004; Zeneggen [46°16'N, 7°52'E, 1400m a.s.l.], 9 ♂♂, 22.vi.2014.

Distribution. Europe: Slovakia (Papp and Černý 2017). First record from Switzerland.

Biology. Host plant unknown.

Liriomyza occipitalis Hendel, 1931

Material examined. **GR**: Lüsai, 1800m a.s.l., [46°37'N, 10°22'E], 1 ♂, 24.vi.2017; Santa Maria, Müstair, 1850m a.s.l., [46°36'N, 10°25'E], 1 ♂, 23.vi.2017; Sur, 1550m a.s.l., [46°31'N, 9°38'E, 1 ♂, 3.vi.2000; Tinizong, 1350m a.s.l., [46°35'N, 9°37'E], 1 ♂, 3.vi.2000. **LU**: Luzern [47°01'N, 8°19'E, 440m a.s.l.], 1 ♂, 10.vi.2006.

Distribution. Europe: Czech Republic, Finland, France, Germany, Great Britain, Hungary, Poland, Russia, Slovakia (Papp and Černý 2017). First record from Switzerland.

Biology. Host plant *Equisetum arvense*.

Liriomyza oldenbergi Hering, 1933

Material examined. **TI**: Bolle di Magadino [46°09'N, 8°52'E, 200m a.s.l.], 8 ♂♂, 9.viii.1997. **VS**: Jeizinen [46°20'N, 7°44'E, 1500m a.s.l.], 22 ♂♂, 10.viii.2013; Pfynwald [46°38'N, 7°37'E, 600m a.s.l., banana bait], 2 ♂♂, 26.–28.vii.1993; Visperterminen, 1400m a.s.l., [46°15'N, 7°54'E, 1 ♂, 31.vii.1998, B. Merz & G. Bächli leg.

Distribution. Europe: Germany, Hungary, Lithuania (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Peucedanum* spp.

Liriomyza pascuum (Meigen, 1838)

Material examined. **AG**: Würenlingen [47°32'N, 8°16'E, 420m a.s.l., banana bait], 1 ♂, 6.–11.vi.1973.

Distribution. Europe: Austria, Belgium, Bulgaria, Croatia, Czech Republic, France incl. Corsica, Germany, Great Britain, Latvia, Lithuania, Montenegro, Poland, Romania, Serbia, Spain; Asia: Turkey (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Euphorbia* spp.

Liriomyza phryne Hendel, 1931

Material examined. **AG**: Würenlingen, Bärengraben [47°31'N, 8°15'E, 420m a.s.l.], 2 ♂♂, 13.v.1998, B. Merz & G. Bächli leg., 2 ♂♂, 27.vii.2001. **BE**: Ligerz [47°06'N, 7°08'E, 600m a.s.l.], 2 ♂♂, 29.v.2010. **BL**: Bubendorf [47°27'N, 7°44'E, 500m a.s.l.], 623.25/253.75, 1 ♂, 6.–13.vii.2000, M. Wolf leg. **GE**: Bernex, Chante-Merle, 420m a.s.l., [46°11'N, 6°03'E], 1 ♂, 7.viii.2000, B. Merz & G. Bächli leg. **LU**: Dierikon [47°06'N, 8°22'E, 550m a.s.l.], 1 ♂, 2000, 1 ♂, 2001, 1 ♂, 2003; Ruswil [47°05'N, 8°08'E, 820m a.s.l.], 1 ♂, 2000, 1 ♂, 2004, 1 ♂, 2005, all P. Duelli leg. **UR**: Seelisberg [47°16'N, 8°33'E, 810m a.s.l.], 1 ♂, 4.–7.viii.1973. **ZG**: Steinhausen [47°12'N, 8°29'E, 500m a.s.l.], 1 ♂, 2005, 2 ♂♂, 2006, all P. Duelli leg. **ZH**: Hönggerberg [47°25'N, 8°30'E, 520m a.s.l., banana bait], 1 ♂, 29.vi.–3.vii.1999; Marthalen [47°38'N, 8°39'E, 390m a.s.l.], 2 ♂♂, 8.vi.2008.

Distribution. Europe: Andorra, Austria, Belarus, Belgium, Czech Republic, Estonia, Latvia, Lithuania, France, Germany, Great Britain, Greece, Italy, Poland, Norway, Russia, Slovakia, Spain, Sweden (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Agropyron*, *Arrhenatarum*, *Dactylis*, *Holcus*, *Lolium*.

Liriomyza pisivora Hering, 1954

Material examined. **VS**: Pfynwald [46°38'N, 7°37'E, 600m a.s.l.], 1 ♂, 19.v.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Czech Republic, France incl. Corsica, Germany, Great Britain, Hungary, Lithuania, Poland, Russia; Asia: Asian Russia – Yakutia (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Lathyrus*, *Pisum*, *Vicia*.

***Liriomyza pseudopygmina* (Hering, 1933)**

Material examined. VS: Pfynwald [46°38'N, 7°37'E, 600m a.s.l.], 4 ♂♂, 19.v.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Lithuania, Spain; Asia: Japan (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Raphanus*, *Sinapis*, *Sisymbrium*.

***Liriomyza solivaga* Spencer, 1971**

Material examined. AG: Würenlingen [47°32'N, 8°16'E, 420m a.s.l.], 1 ♀, 31.viii.1999. GR: Nationalpark [46°40'N, 10°12'E, 2000m a.s.l.], 4 ♂♂, 2004, 10 ♂♂, 2005, all P. Duelli leg. UR: Furkapass, ALPFOR Area, [46°35'N, 8°25'E, 2500m a.s.l.], 1 ♂, 24.vii.2012. VS: Jeizinen, 1500–2000m a.s.l., [46°20'N, 7°44'E], 2 ♂♂, 3.vii.2001.

Distribution. Europe: France, Great Britain, Spain (Papp and Černý 2017). First record from Switzerland.

Biology. Host plant unknown.

***Liriomyza sonchi* Hendel, 1931**

Material examined. BL: Pratteln [47°31'N, 7°42'E, 285m a.s.l.], 4 ♂♂, 2004, P. Duelli leg. VD: Changins [46°24'N, 6°14'E, 430m a.s.l.], 1 ♂, 2000, 2 ♂♂, 2005, all P. Duelli leg.

Distribution. Europe: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Lithuania, Netherlands, Norway, Poland, Russia, Slovakia, Spain, Sweden; Africa: Morocco; Asia: China, India, Iran, Japan (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Arnoseris*, *Cichorium*, *Conyza*, *Euphorbia*, *Erigeron*, *Eryngium*, *Lactuca*, *Lapsana*, *Lepidium*, *Mycelis*, *Picris*, *Prenanthes*, *Reichardia*, *Sonchus*.

***Liriomyza soror* Hendel, 1931**

Material examined. AG: Habsburg [47°28'N, 8°11'E, 490m a.s.l.], 1 ♂, 30.viii.2004, B. Wermelinger leg. BL: Pratteln [47°31'N, 7°42'E, 285m a.s.l.], 2 ♂♂, 2000, 7

♂♂, 2004, P. Duelli leg. GE: Lullier [46°14'N, 6°15'E, 480m a.s.l., light trap], 1 ♂, viii.1992, H. Hächler leg. VS: Jeizinen, 2000m a.s.l., [46°20'N, 7°44'E], 1 ♂, 3.vii.2001, 1 ♂, 26.vi.2004.

Distribution. Europe: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Great Britain, Greece, Hungary, Lithuania, Poland, Russia, Slovakia, Sweden (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Carduus*, *Cirsium*.

***Liriomyza taurica* Zlobin, 2003**

Material examined. UR: Seelisberg [46°58'N, 8°35'E, 810m a.s.l., banana bait], 3 ♂♂, 4.–7.viii.1973. VS: Jeizinen [46°20'N, 7°44'E, 1500m a.s.l.], 1 ♂, 26.vi.1999. ZH: Dietikon [47°24'N, 8°24'E, 390m a.s.l., banana bait], 1 ♂, 8.–16.vi.1984.

Distribution. Europe: Andorra, Czech Republic, Germany, Greece, Ukraine (Papp and Černý 2017). First record from Switzerland.

Biology. Host plant unknown, the species belongs to the *L. flaveola* group, known as grass miners.

***Liriomyza valeriana* Hendel, 1932**

Material examined. VD: La Dôle, 1500m a.s.l., [46°26'N, 6°06'E], 1 ♂, 26.vii.2004.

Distribution. Europe: Denmark, Estonia, Finland, France, Germany, Great Britain, Lithuania, Netherlands, Norway, Poland, Sweden. (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Centranthus*, *Eupatorium*, *Valeriana*, *Valerianella*.

***Liriomyza wachtlii* Hendel, 1920**

Material examined. GR: Celerina [46°31'N, 9°52'E, 1890m a.s.l.], 1 ♂, 2005, P. Duelli leg.

Distribution. North America: Canada; Europe: Austria, Czech Republic, Finland, Germany, Montenegro, Russia, Sweden; Asia: Asian Russia – Yakutia (Papp and Černý 2017). First record from Switzerland.

Biology. Host plants *Veratrum album*, *V. lobelianum*, *V. nigrum*.

***Metopomyza xanthaspoides* (Frey, 1946)**

Material examined. GR: Marmorera, 1600m a.s.l., [46°31'N, 9°38'E], 2 ♂♂, 2.vi.2000.

Distribution. Europe: Czech Republic, Estonia, Finland, France, Germany, Hungary, Lithuania, Norway, Poland, Russia, Slovakia, Sweden; Asia: Asian Russia – East Siberia (Papp and Černý 2017). First record from Switzerland.

Biology. Host plant unknown.

***Napomyza inquilina* (Kock, 1966)**

Material examined. VS, Leuk-Rotafen, [46°19'N, 7°41'E, 850m a.s.l.], 1 ♂, 16.v.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Germany; Asia: Asian Russia – East Siberia (as *N. hirtella* Zlobin, 1994). First record from Switzerland.

Biology. Host plant *Linaria vulgaris*.

***Nemorimyza posticata* (Meigen, 1830)**

Material examined. GE: Jussy, Prés de Villette, 475m a.s.l., [46°14'N, 6°16'E, 1 ♂, 8.viii.2000, B. Merz & G. Bächli leg. GL: Richisau [47°01'N, 8°54'E, 1100m a.s.l.], 1 ♂, 7.–11.viii.1995.

Distribution. North America: Canada, United States; Central America: Costa Rica; Europe: Austria, Belarus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Lithuania, Poland, Netherlands, Norway, Spain, Sweden; Asia: China, Japan (Papp and Černý 2016). First record from Switzerland.

Biology. Host plants *Aster*, *Baccharis*, *Buphthalmum*, *Erechtites*, *Solidago*.

***Phytobia cambii* (Hendel, 1931)**

Material examined. VS: Baltschieder [46°18'N, 7°52'E, 650m a.s.l.], 1 ♂, 17.vi.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Latvia, Lithuania, Netherlands, Poland, Portugal (Černý et al. 2018), Romania, Russia, Slovakia, Sweden; Asia: Asian Russia – East Siberia, Japan (Papp and Černý 2016). First record from Switzerland.

Biology. Host plants *Alnus*, *Betula*, *Populus*, *Salix*.

***Phytomyza abdominalis* Zetterstedt, 1848**

Material examined. NE: Rochefort [46°59'N, 6°49'E, 800m a.s.l., banana bait], 1 ♂, 5.–8.vii.1982. TI: San Giorgio [45°54'N, 8°57'E, 1100m a.s.l.], 1

♂, 18.vi.1995, B. Merz & G. Bächli leg. VS: Bürchen [46°17'N, 7°49'E, 1600m a.s.l., banana bait], 1 ♂, 17.–19.viii.1993, 1500–1650m a.s.l., 1 ♂, 2.vii.2001; Leuk [46°19'N, 7°38'E, 600m a.s.l., banana bait], 3 ♂♂, 23.viii.–2.ix.1977.

Distribution. Europe: Austria, Czech Republic, Denmark, Finland, France, Germany, Italy, Lithuania, Norway, Poland, Sweden. First record from Switzerland.

Biology. Host plant *Hepatica nobilis*.

***Phytomyza angelicastri* Hering, 1932**

Material examined. GR: Landquart [46°58'N, 9°36'E, 580m a.s.l., banana bait], 1 ♂, 9.–12.viii.1974; Santa Maria, Müstair, 1850m a.s.l., [46°36'N, 10°25'E], 1 ♂ 1 ♀, 23.vi.2017. UR: Furkapass, ALPFOR area, [46°35'N, 8°25'E, 2500m a.s.l.], 1 ♂, 23.vii.2012.

Distribution. Europe: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Ireland, Lithuania, Norway, Poland, Slovakia, Sweden (Černý 2011). First record from Switzerland.

Biology. Host plants *Angelica*, *Aegopodium*.

***Phytomyza angelicivora* Hering, 1924**

Material examined. VS: Jeizinen, 2000m a.s.l., [46°20'N, 7°44'E], 1 ♂, 2.vii.2001; Visperterminen, 1300–2300m a.s.l., [46°15'N, 7°54'E], 4 ♂♂, 30.vii.1998, B. Merz & G. Bächli leg.

Distribution. Europe: Czech Republic, Germany, Russia (Černý and Vlk 2005). First record from Switzerland.

Biology. Host plant *Angelica palustris*.

***Phytomyza arnicicola* Lundquist, 1949**

Material examined. GR: Nationalpark [46°40'N, 10°12'E, 2000m a.s.l.], 1 ♂, 2005, P. Duelli leg.

Distribution. North America: United States incl. Alaska; Europe: Czech Republic, Sweden; Asia: Asian Russia – Yakutia (Nartshuk and Bagachanova 2010). First record from Switzerland.

Biology. Host plant *Arnica alpina*.

***Phytomyza bellidina* Hendel, 1934**

Material examined. GR: Sur, 1600m a.s.l., [46°31'N, 9°38'E], 2 ♂♂, 3.vi.2000; Tschierv, 1700m a.s.l., [46°38'N, 10°20'E], 9 ♂♂, 27.vi.2015.

Distribution. Europe: France, Italy, Portugal, Republic of Malta, Spain, former Yugoslavia. First record from Switzerland.

Biology. Host plants *Bellis perennis*, *B. sylvestris*.

***Phytomyza carlestolrai* Černý, 2007**

Material examined. GR: Tschierv, 1700m a.s.l., [46°38'N, 10°20'E], 1 ♂, 27.vi.2015.

Distribution. Europe: Andorra, France (Černý 2009). First record from Switzerland.

Biology. Host plant unknown.

***Phytomyza cirsii* Hendel, 1923**

Material examined. TI: Acquacalda [46°33'N, 8°49'E, 1750m a.s.l.], 1 ♂, 22.–26.vi.2001; Robiei [46°27'N, 8°31'E, 1900m a.s.l.], 1 ♂, 4.–5.vii.2008. VS: Baltschieder [46°18'N, 7°52'E, 650m a.s.l.], 1 ♂, 17.vi.1996, B. Merz & G. Bächli leg.

Distribution. Europe: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Lithuania, Netherlands, Poland, Slovakia, Spain, Sweden; Asia: Turkey (Černý 2009, 2011). First record from Switzerland.

Biology. Host plants *Cirsium*, *Cynara*, *Serratula*, *Scolymus*.

***Phytomyza coniopais* Hering, 1931**

Material examined. GR: Tschlin, 1500m a.s.l., [46°52'N, 10°26'E], 1 ♂, 25.vi.2016.

Distribution. Europe: Austria (Franz 1989), Germany, Poland. First record from Switzerland.

Biology. Host plant *Conium maculatum*.

***Phytomyza erigerophila* Hering, 1927**

Material examined. GR: Ftan Clünas [46°48'N, 10°15'E, 2000m a.s.l.], 1 ♂, 5.viii.1996, B. Merz & G. Bächli leg.

Distribution. North America: Canada and United States; Europe: Bulgaria, Czech Republic, Denmark, Finland, France incl. Corsica, Germany, Great Britain, Lithuania, Netherlands, Norway, Poland; Asia: Japan. First record from Switzerland.

Biology. Host plants *Aster*, *Conyza*, *Erigeron*.

***Phytomyza farfarae* Hendel, 1935**

Material examined. GR: Santa Maria, Müstair, Craistas [46°36'N, 10°25'E, 1850m a.s.l.], 1 ♂, 30.vi.2013; Tschierv, 1700m a.s.l., [46°38'N, 10°20'E], 1 ♂, 27.vi.2015.

Distribution. Europe: Austria, Bulgaria, Czech Republic, Germany, Italy, Montenegro, Poland, Romania, Slovakia. First record from Switzerland.

Biology. Host plants *Tussilago*, *Petasites*.

***Phytomyza ferina* Spencer, 1971**

Material examined. GR: Nationalpark [46°40'N, 10°12'E, 2000m a.s.l.], 3 ♂♂, 2000, P. Duelli leg. UR: Furkapass, ALPFOR Area, [46°35'N, 8°25'E, 2500m a.s.l.], 1 ♂, 24.vii.2012. VS: Morgins, Portes du Soleil [46°12'N, 6°48'E, 1900m a.s.l.], 1 ♂, 27.vii.2004.

Distribution. Europe: Great Britain, Poland. First record from Switzerland.

Biology. Host plant unknown.

***Phytomyza flavofemorata* Strobl, 1893**

Material examined. BS: Basel, Zoologischer Garten, Sektor E, E2, [47°34'N, 7°35'E, 280m a.s.l.], 1 ♂, 1.–15.iv.2005, D. Burckhardt leg. GR: Celerina [46°31'N, 9°52'E, 1890m a.s.l.], 4 ♂♂, 2000, 4 ♂♂, 2001, all P. Duelli leg.; Dischmatal [46°45'N, 9°54'E, 1600m a.s.l.], Net., 3 ♂♂, 16.–31.vii.1990, 1 ♂, 16.–31.vii.1991, 2 ♂♂, 1.–20.viii.1991, all P. Brodmann leg.; Lantsch [46°41'N, 9°34'E, 1460m a.s.l.], 1 ♂, 2000, P. Duelli leg.; Tschlin, 1600m a.s.l., [46°52'N, 10°26'E], 1 ♂, 24.vi.2016. VS: Jeizinen [46°20'N, 7°44'E, 1500m a.s.l.], 1 ♂, 26.vi.1999, 1500–2000m a.s.l., 2 ♂♂, 3.vii.2001; Leuk [46°19'N, 7°38'E, 700m a.s.l., banana bait], 3 ♂♂, 27.–29.vii.1993; Visp [46°18'N, 7°53'E, 650m a.s.l., banana bait], 1 ♂, 9.–11.viii.1993.

Distribution. Europe: Austria, Belarus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Russia, Slovakia, Sweden, former Yugoslavia. First record from Switzerland.

Biology. Host plants *Melampyrum arvense*, *M. pratense*.

***Phytomyza hendeli* Hering, 1923**

Material examined. AG: Würenlingen [47°32'N, 8°16'E, 420m a.s.l., banana bait], 1 ♂, 6.–11.vi.1973, G. Bächli leg. GR: Nationalpark [46°40'N, 10°12'E, 2000m a.s.l.], 1 ♂, 2001, 1 ♂, 2005, P. Duelli leg. VS: Branson, Follaterre [46°08'N, 7°05'E, 500m a.s.l.], 1 ♂, 29.vii.2004; Visperterminen [46°15'N, 7°54'E, 1550m a.s.l.], 2 ♂♂, 21.vii.2004.

Distribution. Europe: Croatia, Czech Republic, Denmark, Finland, Germany, Great Britain, Greece, Latvia, Lithuania, Netherlands, Norway, Poland, Slovakia, Sweden; Asia: India (Černý 2011, Černý *et al.* 2006, Karpa 2008). First record from Switzerland.

Biology. Host plant *Anemone nemorosa*.

Phytomyza krygeri Hering, 1949

Material examined. BE: Ligerz [47°06'N, 07°08'E, 600m a.s.l.], 3♂♂, 29.v.2010.

Distribution. Europe: Czech Republic, Denmark, Finland, Germany, Great Britain, Netherlands, Norway, Poland, Sweden (Zlobin 2005). First record from Switzerland.

Biology. Host plant *Aquilegia vulgaris*.

Phytomyza leucanthemi Hering, 1935

Material examined. JU: Delémont [47°22'N, 07°20'E, 500m a.s.l., banana bait], 1♂, 2.–6.viii.1974.

Distribution. Europe: Czech Republic, Denmark, France, Germany, Great Britain, Ireland, Latvia, Lithuania, Norway, Poland, Slovenia, Sweden. First record from Switzerland.

Biology. Host plant *Chrysanthemum leucanthemum*.

Phytomyza melana Hendel, 1920

Material examined. GR: Ftan, Clünas [46°48'N, 10°15'E, 2000m a.s.l.], 1♂, 5.viii.1996, B. Merz & G. Bächli leg. TI: Acquacalda [46°33'N, 8°49'E, 1750m a.s.l.], 1♂, 22.–24.vi.2001.

Distribution. Europe: Austria, Germany, Great Britain, Poland, Norway (Andersen 2013). First record from Switzerland.

Biology. Host plants *Pimpinella major*, *P. saxifraga*.

Phytomyza monticola Černý, 2007

Material examined. GR: Dischmatal [46°45'N, 09°54'E, 1600m a.s.l.], 1♂, 16.–31.vii.1990, P. Brodmann leg.

Distribution. Europe: Andorra. First record from Switzerland.

Biology. Host plant unknown.

Phytomyza mutellinae Beiger, 1961

Material examined. GR: Marmorera, 1600m a.s.l., [46°31'N, 09°38'E], 1♂, 2.vi.2000.

Distribution. Europe: Czech Republic, Poland, Slovakia (Černý 2013). First record from Switzerland.

Biology. Host plant unknown.

Phytomyza mylini Hering, 1954

Material examined. VS: Visp [46°18'N, 07°53'E, 670m a.s.l.], 1♂, 2000, P. Duelli leg.

Distribution. Europe: Czech Republic, Finland, France, Germany, Latvia, Lithuania, Poland (Kah-anpää 2014, Karpa 2008, Withers 2014). First record from Switzerland.

Biology. Host plants *Carum*, *Cicuta*, *Daucus*, *Ligusticum*, *Selimum*, *Seseli*, *Silaum*.

Phytomyza nigrifemur Hering, 1934

Material examined. TI: Acquacalda [46°33'N, 8°49'E, 1750m a.s.l.], 1♂, 22.–24.vi.2001. VS: Jeizinen, 2000m a.s.l., [46°20'N, 7°44'E], 2♂♂, 3.vii.2001; Leuk [46°19'N, 7°38'E, 700m a.s.l., banana bait], 1♂, 27.–29.vii.1993.

Distribution. Europe: Austria, Belarus, Bulgaria, Czech Republic, Estonia, Finland, France, Germany, Great Britain, Latvia, Lithuania, Norway Poland, Russia, Slovakia, Sweden (Andersen 2013, Černý 2013). First record from Switzerland.

Biology. Host plant *Melampyrum nemorosum*.

Phytomyza paraciliata (Godfray, 1985)

Material examined. AG: Rottenschwil [47°19'N, 8°22'E, 390m a.s.l.], 1♂, 14.vi.2008. VS: Leuk [46°19'N, 7°38'E, 600m a.s.l., banana bait], 3♂♂, 23.viii.–2.ix.1977; Oberwald [46°31'N, 8°20'E, 1820m a.s.l., banana bait], 3♂♂, 13.–15.viii.1975; Riederwalp [46°23'N, 8°02'E, 2050m a.s.l., banana bait], 9♂♂, 31.vii.–8.viii.1976.

Distribution. Europe: Great Britain, Spain. First record from Switzerland.

Biology. Host plant *Leucanthemum vulgare*.

Phytomyza picridocecis Hering, 1957

Material examined. VS: Mund, Finnen [46°19'N, 7°54'E, 1400m a.s.l.], 1♂, 21.vi.2014.

Distribution. Europe: Germany. First record from Switzerland.

Biology. Host plant unknown.

***Phytomyza pimpinellae* Hendel, 1924**

Material examined. GR: Tschierv, 1700m a.s.l., [46°38'N, 10°20'E], 1 ♂, 27.vi.2015. SZ: Biberbrugg [47°09'N, 8°43'E, 860m a.s.l.], 1 ♂, 25.vi.2011.

Distribution. Europe: Austria, Belarus, Bosna and Herzegovina, Czech Republic, Finland, Germany, Great Britain, Hungary, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Slovakia, Sweden (Černý 2013, Černý and Vála 2005, Kahanpää 2014). First record from Switzerland.

Biology. Host plants *Pimpinella major*, *P. saxifraga*.

***Phytomyza senecionis* Kaltenbach, 1869**

Material examined. NE: Rochefort [46°59'N, 6°49'E, 800m a.s.l., banana bait], 2 ♂♂, 5.–8.vii.1982.

Distribution. Europe: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Germany, Italy, Netherlands, Poland, Slovakia (Černý 2006). First record from Switzerland.

Biology. Host plants *Senecio* spp.

***Phytomyza sitchensis* Griffiths, 1973**

Material examined. GR: Marmorera, 1600m a.s.l., [46°31'N, 9°38'E], 1 ♂, 2.vi.2000. SZ: Alpthal [47°04'N, 8°43'E, 1150m a.s.l.], 1 ♂, 2004, P. Duelli leg. UR: Furkapass ALPFOR Area, [46°35'N, 8°25'E, 2500m a.s.l.], 1 ♂, 23.vii.2012, 1 ♂, 25.vii.2012.

Distribution. North America: Alaska; Europe: Denmark, Germany, Great Britain (Petersen and von Tschirnhaus 2001). First record from Switzerland.

Biology. Host plant *Conioselinum* sp.

***Pseudonapomyza moraviae* Černý, 1992**

Material examined. VS: Leuk-Platten [46°19'N, 7°42'E, 600m a.s.l.], 1 ♂, 22.vii.2004.

Distribution. Europe: Czech Republic, Hungary, Lithuania, Poland, Russia, Slovakia (Papp and Černý 2017). First record from Switzerland.

Biology. Host plant unknown.

Discussion

A total of 108 species of the family Agromyzidae are recorded as new for the fauna of Switzerland. These species were collected randomly and extensively at localities in 19 cantons. Five species are new for Central Europe, namely *Liriomyza solivaga*, *Ophiomya vanyushai*, *Phy-*

tomyza bellidina, *P. carlestolrai* and *P. monticola*. Additional species rarely recorded from Central Europe are *Cerodontha (Cerodontha) alpestris*, *C. (C.) coxalis*, *C. (Icteromyza) rozkosnyi*, *C. (Poemyza) morula*, *Chromatomyia glacialis*, *Ch. spenceriana*, *Liriomyza aculeolata*, *L. dendranthema*, *L. europaea*, *L. lituanica*, *L. muranica*, *Melanagromyza arnicarum*, *M. eriolepidis*, *M. nibletti*, *Napomyza inquilina*, *Ophiomyia mohelensis*, *Phytomyza arnicicola*, *P. ferina*, *P. picridocecis* and *P. sitchensis*. Four species recently described from Hungary, are also new for the fauna of Switzerland namely *Agromyza longiphallus*, *A. seticercus*, *Cerodontha (Butomomyza) falcata*, *Ophiomyia hungarica* and *O. pannonica*. Our records increase the number of Agromyzidae of Switzerland to 395 species. The potential number of Swiss Agromyzidae species is probably much higher, expected number agromyzid in Switzerland is probably 500 species. Such a conclusion seems to be confirmed by a comparison of species richness in neighbouring countries, 389 species known from Austria (Černý 2013, Černý and Merz 2006, Franz 1989, Griffiths 1980, Lonsdale 2017, Martinez 2013), 481 species from the 567 species from Germany (Barták 1998, Martinez 2013, von Tschirnhaus 1999), 385 species from Francie (Černý 2005b, 2009, 2013, Černý and Merz 2006, 2007, Martinez 2013, Withers 2014), 298 species from Italy (Bella et al. 2007, Černý 2006, 2013, Martinez 2013, Süss 1999, 2001, 2002, 2003, Süss and Moreschi 2005) and hitherto any species recorded from Liechtenstein.

Our investigation of a previously unstudied collection indicates that such collections contain many new records for Switzerland. They also contain many additional localities. Knowledge of the Agromyzidae is thus improved. We are aware of other such collections which are awaiting exploration. We suggest that more specialists investigate agromyzids, not only to improve faunal details, but also to clear up the biological background of the species discovered.

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References

Andersen A (2013) On the Agromyzidae (Diptera) in Norway, Part 2. Norwegian Journal of Entomology 60: 39–56.

Barták M (1998) Diptera of the Bavarian forest. Silva Gabreta (Vimperk) 2: 239–258.

Bächli G, Merz B, Haenni J-P (2014) Dritter Nachtrag zur Checkliste der Diptera der Schweiz. Entomo helvetica 7: 119–140.

Bella S, Mazzeo K, Süss L (2007) First record for the European fauna of *Phytoliriomyza jacarandae* Steyskal & Spencer, 1978 (Diptera

Agromyzidae) leafminer of *Jacaranda mimosifolia* D. Don. (Bignoniaceae). *Bulletino di Zoologia agraria e di Bachicoltura* 39(1): 75–78; Torino.

Benavent-Corai J, Martínez M, Peydró JR (2005) Catalogue of the hosts-plants of the world Agromyzidae (Diptera): Part 1: List of Agromyzidae species and their hosts-plants. Part II: List of hosts-plants and Agromyzidae associated. *Bulletino di Zoologia agraria e di Bachicoltura*, Ser. II, 37(supplementum): 1–97.

Černý M (1992) A revision of Czechoslovak species of *Pseudonapomyza* Hendel, with description of four new species (Diptera, Agromyzidae). *Acta entomologica bohemoslovaca* 89: 451–465.

Černý M (2005a) Additional notes on the fauna of Agromyzidae (Diptera) in Switzerland. *Revue suisse de Zoologie* 112(4): 771–805. <https://doi.org/10.5962/bhl.part.80326>

Černý M (2005b) A new species of *Pseudonapomyza* from Egypt, with notes on distribution of some other Palaearctic species of the genus (Diptera: Agromyzidae). In: Kubík Š, Barták M (Eds) *Dipterologica bohemoslovaca* 11. *Folia Facultatis Scientiarum Naturalium Universitatis Masarykianae Brunensis, Biologia* 109[2004]: 95–100.

Černý M (2006) Additional records of Agromyzidae (Diptera) from Italy. In: Kinkorová J (Ed.) *Dipterologica bohemoslovaca* 13. *Acta Universitatis Carolinae biologica* 50: 19–32.

Černý M (2007a) Two new species of the genus *Cerodontha* (Diptera: Agromyzidae). *Folia heyrovskyana* 14(3): 95–104.

Černý M (2007b) New faunistic records of Agromyzidae Fallén (Diptera) from Andorra including description of three new species. *Boletín de la Sociedad entomológica aragonesa* 41: 43–51.

Černý M (2009) New faunistic data on the Agromyzidae (Diptera) from the West Palaearctic Region. *Klapalekiana* 45: 9–21.

Černý M (2011) Agromyzidae (Diptera) in the vicinity of the Kerkini Lake with descriptions of eight new species from Greece. *Acta entomologica Musei nationalis Pragae* 51(1): 299–347.

Černý M (2013) Additional records of Agromyzidae (Diptera) from the West Palaearctic Region. *Časopis Slezského Muzea Opava* (A) 62: 281–288.

Černý M, Andrade R, Gonçalves AR, von Tschirnhaus M (2018) New records of Agromyzidae (Diptera) from Portugal, with an updated checklist. *Acta Musei Silesiae, Scientiae naturales* 67: 7–57. <https://doi.org/10.2478/cszma-2018-0002>

Černý M, Barták M, Kubík Š (2006) Agromyzidae. In: Barták M, Kubík Š (Eds) *Diptera of Podyjí National Park and its Environs*. Česká zemědělská univerzita v Praze [2005]: 285–300.

Černý M, Barták M, Kubík Š (2013) Agromyzidae (Diptera) of Vráž nr. Písek (Czech Republic). In: Kubík Š, Barták M (Eds) *Workshop on biodiversity, Jevany*. Česká zemědělská univerzita v Praze, 111–130.

Černý M, Barták M, Vaněk J (2009) Vrtalkovití (Diptera, Agromyzidae) vysokých poloh Krkonoš. (Agromyzidae (Diptera) of high altitudes of the Krkonoše Mts.). *Opera corcontica* 46: 185–197.

Černý M, Farkač J (2004) Faunistic records from Slovakia. Diptera: Agromyzidae. *Entomological Problems* 34(1–2): 112.

Černý M, Merz B (2005) New records of Agromyzidae (Diptera) from Switzerland. *Mitteilungen der schweizerischen entomologischen Gesellschaft* 78: 337–348.

Černý M, Merz B (2006) New records of Agromyzidae (Diptera) from Palaearctic Region. *Mitteilungen der schweizerischen entomologischen Gesellschaft* 79: 77–106.

Černý M, Merz B (2007) New records of Agromyzidae (Diptera) from the West Palaearctic Region, with an updated checklist for Switzerland. *Mitteilungen der schweizerischen entomologischen Gesellschaft* 80: 107–121.

Černý M, Merz B (2012) 8.36.30. Superfamille Opomyzoidea (Agromyzidae) In: Merz B (Ed.) *Liste annotée des insectes (Insecta) des Cantons de Genève. Instrumenta Biodiversitatis – Volume VIII*, Muséum d’histoire naturelle, Genève, 401–403.

Černý M, Vála M (2005) Faunistic records. Agromyzidae. In: Kubík Š, Barták M (Eds) *Dipterologica bohemoslovaca* 11. *Folia Facultatis Scientiarum Naturalium Universitatis Masarykianae Brunensis, Biologia* 109[2004]: 335–343.

Černý M, Vlk R (2005) Agromyzidae (Diptera) of meadows in southern parts of the White Carpathians Protected Landscape Area. In: Bitušík P (Ed.) *Dipterologica bohemoslovaca* 12. *Acta Facultatis Ecologiae* 12(Suppl.): 34–41. [Zvolen, 2004]

Dursun O, Civelek HS, Barták M, Kubík Š, Yıldırım EM, Černý M (2015) Contributions to leafminer (Diptera: Agromyzidae) fauna and new records of plant pests and weeds in Turkey. *Turkish Journal of Entomology* 39(2): 159–169. <https://doi.org/10.16970/ted.19978>

Eder R, Baur R (2003) Lauchminierfliegen auch in der Schweiz! La mouche mineuse du poireau est arrivée en Suisse. *Der Gemüsebauer / Le Maraîcher* 2003(7): 24–25.

Franz H (1989) Die Nordost-Alpen im Spiegel ihrer Landtierwelt. Eine Gebietsmonographie. Universitätsverlag Wagner, Innsbruck, 445 pp.

Godfray HCJ (1985) *Chromatomyia paraciliata* sp. n. (Diptera: Agromyzidae), a leaf-miner of *Leucanthemum vulgare* from southern England. *Entomologist's Gazette* 36: 47–50.

Griffiths GCD (1963) A revision of the Palaearctic species of the *ngripes* group of the genus *Agromyza* (Fallén). *Tijdschrift voor Entomologie* 106(2): 113–168.

Griffiths GCD (1964) The Agromyzid Fauna of Iceland and the Faroes, with Appendices on the *Phytomyza mili* and *robustella* Groups (Diptera, Agromyzidae). *Entomologiske Meddelelser* 32: 393–450.

Griffiths GCD (1967) Revision of the *Phytomyza syngenesiae* group (Diptera, Agromyzidae), including species hitherto known as "*Phytomyza atricornis* Meigen". *Stuttgarter Beiträge zur Naturkunde* 177: 1–28.

Griffiths GCD (1972a) Studies on boreal Agromyzidae (Diptera). I. *Phytomyza* miners on *Saxifragaceae*. *Quaestiones entomologicae* 8: 67–80.

Griffiths GCD (1972b) Studies on boreal Agromyzidae (Diptera). II. *Phytomyza* miners on *Senecio*, *Petasites* and *Tussilago* (Compositae, Senecioneae). *Quaestiones entomologicae* 8: 377–405.

Griffiths GCD (1973) Studies on boreal Agromyzidae (Diptera). IV. *Phytomyza* miners on *Angelica*, *Heracleum*, *Laserpitium* and *Pastinaca* (Umbelliferae). *Quaestiones entomologicae* 9: 219–253.

Griffiths GCD (1974) Studies on boreal Agromyzidae (Diptera). V. On the genus *Chromatomyia* Hardy, with revision of Caprifoliaceae-mining species. *Quaestiones entomologicae* 10: 35–69.

Griffiths GCD (1976a) Studies on boreal Agromyzidae (Diptera). X. *Phytomyza* miners on *Crassulaceae*. *Quaestiones entomologicae* 12: 203–210.

Griffiths GCD (1976b) Studies on boreal Agromyzidae (Diptera). XII. *Phytomyza* and *Chromatomyia* miners on *Astereae* (Compositae). *Quaestiones entomologicae* 12: 239–278.

Griffiths GCD (1977) Studies on boreal Agromyzidae (Diptera). XIII. Some *Phytomyza* and *Chromatomyia* miners on *Cichorieae* (Compositae). *Quaestiones entomologicae* 13: 327–345.

Griffiths GCD (1980) Studies on boreal Agromyzidae (Diptera). XIV. *Chromatomyia* miners on Monocotyledones. *Entomologica Scandinavica*, Supplement 13: 1–61.

Hendel F (1920) Die paläarktischen Agromyziden (Dipt.) (Prodromus einer Monographie). *Archiv für Naturgeschichte* 84A(7)[1918]: 109–174.

Hendel F (1924) Acht neue europäische Agromyziden (Dipt.). 6. Beitrag zur Blattminenkunde Europas. *Konowia* 3: 140–148.

Hendel F (1931–1936) 59. Agromyzidae. In: Lindner E (Ed.) *Die Fliegen der palaearktischen Region VI*, 2, Stuttgart, 570 pp. [Taf. I–XVI]

Hering M (1925) Minenstudien V. *Zeitschrift für wissenschaftliche Insektenbiologie* 20: 125–136[5/6], 161–174[7]. <https://doi.org/10.1007/BF00408466>

Hering M (1926) Minenstudien VII. *Zeitschrift für Morphologie und Ökologie der Tiere* 5(3): 447–488. <https://doi.org/10.1007/BF00408156>

Hering M (1927) Beiträge zur Kenntnis der Ökologie und Systematik blattminierender Insekten (Minenstudien VIII.). *Zeitschrift für angewandte Entomologie* 13(1): 156–198. <https://doi.org/10.1111/j.1439-0418.1928.tb00033.x>

Hering M (1928) Beiträge zur Kenntnis der ökologie und Systematik blattminierender Insekten (Minenstudien IX.). *Zoologische Jahrbücher Jena, Abteilung für Systematik* 55(5–6): 535–588.

Hering M (1931) Minenstudien XI (Teil 1). *Zeitschrift für wissenschaftliche Insektenbiologie* 26(4–6): 93–108.

Hering M (1932) Minenstudien XI (Teil 2). *Zeitschrift für wissenschaftliche Insektenbiologie* 26(7–10): 157–182.

Kahanpää J (2014) Checklist of the leaf-mining flies (Diptera, Agromyzidae) of Finland. In: Kahanpää J, Salmela J (Eds) *Checklist of the Diptera of Finland*. ZooKeys 441, 291–303. <https://doi.org/10.3897/zookeys.441.7586>

Karpa A (2008) Catalogue of Latvian Flies (Diptera: Brachycera). *Latvijas entomologs* 46: 4–43.

Lonsdale O (2017) The *Liriomyza* (Diptera: Schizophora: Agromyzidae) of Canada & Alaska. *Zootaxa* 4234(1): 1–156. <https://doi.org/10.11646/zootaxa.4234.1.1>

Martinez M (1998) 74. Agromyzidae. In: Merz B, Bächli G, Haenni J-P, Gonseth Y (Eds) *Diptera – Checklist, Fauna helvetica 1*. CSCF/SEG, Neuchâtel, 269–275.

Martinez M (2013) Fauna Europaea: Agromyzidae. In: Beuk P, Pape T (Eds) *Fauna Europaea: Diptera, Flies*. Fauna Europaea version 2017.06. <http://fauna-eu.org> [Accessed July 2018]

Merz B, Bächli G, Haenni J-P (2001) Erster Nachtrag zur Checkliste der Diptera der Schweiz. *Mitteilungen der entomologischen Gesellschaft Basel* 51: 110–140.

Merz B, Bächli G, Haenni J-P (2006) Zweiter Nachtrag zur Checkliste der Diptera der Schweiz. *Mitteilungen der entomologischen Gesellschaft Basel* 56: 135–165.

Nartshuk EP, Bagachanova AK (2010) Leaf-miners flies (Diptera, Agromyzidae) of Yakutia (Russia). *Euroasian Entomological Journal* 9(3): 525–534.

Nartshuk EP, von Tschirnhaus M (2017) Leafminer flies (Diptera: Agromyzidae) of the fauna of Russia and adjacent countries: The genus *Agromyza* Fallén. *Studia dipterologica* 22(2)[2015]: 215–232.

Papp L (1984) Family Agromyzidae. In: Soós Á, Papp L (Eds) *Catalogue of Palaearctic Diptera*. Vol. 9 (Micropezidae – Agromyzidae). Akadémiai Kiadó, Budapest, 263–343.

Papp L, Černý M (2015) Agromyzidae (Diptera) of Hungary (Volume 1) – Agromyzinae. Pars Ltd, Nagykovácsi, 416 pp. <https://doi.org/10.18655/Agromyzidae.Vol.1>

Papp L, Černý M (2016) Agromyzidae (Diptera) of Hungary (Volume 2) – Phytomyzinae I. Pars Ltd, Nagykovácsi, 385 pp. <https://doi.org/10.18655/Agromyzidae.Vol.2>

Papp L, Černý M (2017) Agromyzidae (Diptera) of Hungary (Volume 3) – Phytomyzinae II. Pars Ltd, Nagykovácsi, 427 pp.

Petersen FT, von Tschirnhaus M (2001) Agromyzidae (179–182). In: Petersen FT, Meier R (Eds) *A Preliminary list of the Diptera of Denmark*. Steenstrupia 26(2): 119–276.

Ranji H, Karimpour Y, Dousti A (2015) A checklist of the Iranian Agromyzid leaf-miner flies with 11 new records. *Journal of entomological Society of Iran* 35(1): 45–55.

Spencer KA (1964) A revision of the palaearctic species of the genus *Ophiomyia* Braschnikov. *Beiträge zur Entomologie* 14(7–8): 773–822.

Spencer KA (1966a) A revision of European species of the genera *Melanagromyza* Hendel and *Hexomyza* Enderlein, with a supplement on the genus *Ophiomyia* Braschnikov. *Beiträge zur Entomologie* 16(1–2): 3–60.

Spencer KA (1966b) Notes on European Agromyzidae (Diptera) – 1. *Beiträge zur Entomologie* 16(3–4): 285–309.

Spencer KA (1969) Notes on European Agromyzidae (Diptera) – 2. *Beiträge zur Entomologie* 19(1–2): 5–26.

Spencer KA (1972) Notes on European Agromyzidae (Diptera) – 3. *Beiträge zur Entomologie* 21(3–6)[1971]: 249–265.

Spencer KA (1973) Agromyzidae (Diptera) of economic importance. *Series entomologica* 9, W. Junk, The Hague, 405 pp.

Spencer KA (1976) The Agromyzidae (Diptera) of Fennoscandia and Denmark. *Fauna Entomologica Scandinavica* (Vol. 5, parts 1–2). Scandinavian Science Press Ltd., Klampenborg, 1–304, 305–606.

Spencer KA (1977) Notes on world Agromyzidae, with the description of 16 new species (Diptera: Agromyzidae). *Beiträge zur Entomologie* 27(2): 233–254.

Spencer KA (1990) Host Specialization in the World Agromyzidae (Diptera). *Series entomologica* 45, Kluwer Academic Publishers, 444 pp.

Spencer KA (1992) Flycatcher. *Memoirs of an amateur entomologist*. SPB Academic Publishing, The Hague, 414 pp.

Süss L (1999) Su alcuni Agromizidi recentemente raccolti in Italia. *Bollettino di Zoologia agraria e di Bachicoltura*, Ser. II 31(2): 127–137.

Süss L (2001) *Cerodontha (Poemyza) unisetiorbita* Zlobin (Diptera Agromyzidae) nuova per l’Europa. *Bollettino di Zoologia agraria e di Bachicoltura*, Ser. II 33(1): 73–77.

Süss L (2002) Morphological and biological observations on *Ptochomyza czernyi* (Strobl) new for Italy. *Bollettino di Zoologia agraria e di Bachicoltura*, Ser. II 34(1): 17–23.

Süss L (2003) Ulteriori reperti di Ditteri Agromyzidi in Italia. [New records of leaf miners (Diptera Agromyzidae) in Italy]. *Bollettino di Zoologia agraria e di Bachicoltura*, Ser. II 35: 177–80. [in Italian]

Süss L, Moreschi I (2005) *Phytomyza camuna* n. sp. (Diptera Agromyzidae) on *Thalictrum aquilegifolium*. *Bollettino di Zoologia agraria e di Bachicoltura*, Ser. II 37(1): 27–32.

von Tschirnhaus M (1999) Agromyzidae. In: Schumann H, Bährmann R, Stark A (Eds) *Entomofauna Germanica. Checkliste der Dipteren Deutschlands*. Studia dipterologica, Suppl. 2, Halle/Saale, 118–130.

Withers P (2014) Le marais de Lavours, une zone humide majeure pour la faune des diptères. In: Fabrice Darinot (coordinateur): *Bilan de 30 ans d'études scientifiques dans le marais de Lavours (1984–2014)*. Bulletin de la Société linnéenne de Lyon, Hors-Série (Lyon) 3: 153–168.

Zlobin VV (2001) Review of mining flies of the genus *Napomyza* Westwood (Diptera: Agromyzidae). VI. First record of *Napomyza* species from Oriental region. International Journal of dipterological Research 12(1): 43–47.

Zlobin VV (2005) A revised check list of Swedish Agromyzidae (Diptera). International Journal of dipterological Research 16(3): 167–181. [Correct: 175–189]

APPENDIX 1

Updated checklist of the Agromyzidae of Switzerland

Each species is followed by at least one reference about its occurrence in Switzerland. The following abbreviations are used: N = New record from Switzerland presented in this paper; R1 = Černý 2005a; R2 = Černý 2009; R3 = Černý 2013; R4 = Černý and Merz 2005; R5 = Černý and Merz 2006; R6 = Černý and Merz 2007; R7 = Černý and Merz 2012; R8 = Eder and Baur 2003; R9 = Martinez 1998; R10 = Martinez 2013; R11 = Nartshuk and von Tschirnhaus 2017; R12 = Papp 1984; R13 = Spencer 1964; R14 = Spencer 1966; R15 = Spencer 1990; R16 = Spencer 1992.

Agromyzidae Fallén, 1810

Subfamily Agromyzinae

Agromyza Fallén, 1810

- *abiens* Zetterstedt, 1848 – R1, R9, R10
- *albipennis* Meigen, 1830 – R1, R9, R10
- *albitarsis* Meigen, 1830 – N
- *alnibetulae* Hendel, 1931 – R9, R10, R12
- *ambigua* Fallén, 1823 – R9, R10
- *anderssoni* Spencer, 1976 – N
- *anthracina* Meigen, 1830 – R2, R9, R10
- *audcenti* Gibbs, 2004 – R6
- *bicaudata* (Hendel, 1920) – R1
- *bromi* Spencer, 1966 – R1, R9, R10
- *cinerascens* Macquart, 1835 – R1, R4
- *conjuncta* Spencer, 1966 – N
- *drepanura* (Mamonov, 1929) – N
- *erythrocephala* Hendel, 1920 – R3
- *filipendulae* Spencer, 1976 – N
- *flaviceps* Fallén, 1923 – R3
- *frontella* (Rondani, 1875) – R1
- *hendeli* Griffiths, 1963 – R1
- *idaeiana* Hardy, 1853 – R1, R4
- *longiphallus* L. Papp in Papp & Černý 2015 – N
- *lucida* Hendel, 1920 – R1
- *luteitarsis* (Rondani, 1875) – R2
- *lyneborgi* Spencer, 1976 – R11
- *marionae* Griffiths, 1963 – R1
- *mobilis* Meigen, 1830 – R1, R4, R9, R10
- *myosotidis* Kaltenbach, 1864 – R9, R10
- *nana* Meigen, 1830 – R1, R4, R9, R10
- *nigrella* (Rondani, 1875) – R9, R10
- *nigrescens* Hendel, 1920 – R9, R10
- *nigripes* Meigen, 1830 – R1, R4, R9, R10

- *nigrociliata* Hendel, 1931 – R9, R10
- *orobi* Hendel, 1920 – R9, R10
- *polygoni* Hering, 1941 – R1, R4, R9, R10
- *prespana* Spencer, 1957 – R1
- *pseudoreptans* Nowakowski, 1967 – R1
- *pseudorufipes* Nowakowski, 1964 – R1
- *reptans* Fallén, 1823 – R4, R9, R10
- *rondensis* Strobl, 1900 – R1
- *seticercus* L. Papp in Papp & Černý 2015 – N
- *spenceri* Griffiths, 1963 – N
- *sulfuriceps* Strobl, 1898 – R1, R9, R10
- *viciae* Kaltenbach, 1872 – R1 (as *A. quadriseta* Zlobin, 2001), R9, R10
- *vicifoliae* Hering, 1932 – R9, R10
- *woerzi* Groschke & Hering, 1957 – N

Hexomyza Enderlein, 1936

- *cecidogena* (Hering, 1927) – N
- *simplicoides* (Hendel, 1920) – R10, R14

Melanagromyza Hendel, 1920

- *aenea* (Meigen, 1830) – R10, R14
- *aeneoventris* (Fallén, 1823) – R4, R9, R10
- *albocilia* Hendel, 1931 – R2
- *arnicarum* Hering, 1942 – N
- *astragali* Spencer, 1976 – R1
- *cunctans* (Meigen, 1830) – R1, R4, R9, R10
- *eriolepidis* Spencer, 1961 – N
- *eupatorii* Spencer, 1957 – N
- *lappae* (Loew, 1850) – R9, R10
- *nibletti* Spencer, 1957 – N
- *pubescens* Hendel, 1923 – N
- *sativae* Spencer, 1957 – N
- *tripolii* Spencer, 1957 – N
- *zlobini* Pakalniškis, 1996 – N

Ophiomyia Braschnikov, 1897

- *aeneonitens* (Strobl, 1893) – R1
- *alliariae* Hering, 1954 – N
- *beckeri* (Hendel, 1923) – R4
- *campanularum* Stáry, 1930 – R1
- *cichorii* Hering, 1949 – R7
- *collini* Spencer, 1971 – R5
- *cunctata* (Hendel, 1920) – R1
- *curvipalpis* (Zetterstedt, 1848) – R1, R9, R10
- *eucodomus* Hering, 1960 – N
- *galii* Hering, 1937 – R1
- *heracleivora* Spencer, 1957 – R2
- *heringi* Stáry, 1930 – R6
- *hungarica* Černý in Papp & Černý 2015 – NR
- *inaequabilis* (Hendel, 1931) – R1
- *labiatarum* Hering, 1937 – R2
- *longilingua* (Hendel, 1920) – R9, R10, R14
- *maura* (Meigen, 1838) – N
- *melandryi* de Meijere, 1924 – R6
- *moheensis* Černý, 1994 – N
- *moravica* Černý, 1994 – R6
- *nasuta* (Melander, 1913) – R1, R4, R9, R10

- *orbiculata* (Hendel, 1931) – R1, R4, R9, R10, R13
- *pannonica* Černý in Papp & Černý 2015 – N
- *pinguis* (Fallén, 1820) – R1, R9, R10
- *pulicaria* (Meigen, 1830) – R4, R9, R10
- *rostrata* (Hendel, 1920) – N
- *subaura* Hering, 1926 – R1
- *vanyushai* Guglya, 2014 – N
- *vimmeri* Černý, 1994 – R1

Subfamily Phytomyzinae

Amauromyza Hendel, 1931

subgenus *Amauromyza* Hendel, 1931

- *leonuri* Spencer, 1971 – R4

subgenus *Cephalomyza* Hendel, 1931

- *flavifrons* (Meigen, 1830) – R1
- *gyrans* (Fallén, 1823) – R6
- *karli* (Hendel, 1927) – N
- *labiatarum* (Hendel, 1920) – R4
- *luteiceps* (Hendel, 1920) – N
- *mihalyii* Spencer, 1971 – R1
- *monfalconensis* (Strobl, 1909) – R1, R9, R10, R16
- *verbasci* (Bouché, 1847) – R9, R10

Aulagromyza Enderlein, 1936

- *anteposita* (Strobl, 1898) – R9, R10, R16
- *buhri* (de Meijere, 1938) – R9, R10
- *discrepans* (van der Wulp, 1871) – R6
- *hendeliana* (Hering, 1926) – R9, R10, R16
- *luteoscutellata* (de Meijere, 1924) – R1
- *orphana* (Hendel, 1920) – R1
- *similis* (Brischke, 1880) – R1
- *trivittata* (Loew, 1873) – R1, R9, R10

Calycomyza Hendel, 1931

- *artemisiae* (Kaltenbach, 1856) – R9, R10
- *humeralis* (von Roser, 1840) – R1, R9, R10
- *solidaginis* (Kaltenbach, 1969) – R9, R10

Cerodontha Rondani, 1861

subgenus *Butomomyza* Nowakowski, 1967

- *angulata* (Loew, 1869) – R1
- *caricivora* (Groschke, 1954) – N
- *eucaricis* Nowakowski, 1967 – R9, R10
- *falcata* Černý in Papp & Černý, 2016 – N
- *mellita* Spencer, 1971 – N
- *pseuderrans* (Hendel, 1931) – N
- *rohdendorfi* Nowakowski, 1967 – R1
- *scirpi* (Karl, 1926) – R9, R10
- *staryi* (Stary, 1930) – R6

subgenus *Cerodontha* Rondani, 1861

- *affinis* (Fallén, 1823) – R1, R4, R9, R10
- *alpestris* Martinez, 1987 – N
- *coxalis* Martinez, 1987 – N
- *denticornis* (Panzer, 1806) – R1, R4, R9, R10
- *flavicornis* (Egger, 1862) – R9, R10, R12

- *fulvipes* (Meigen, 1830) – R1, R4, R9, R10
- *phragmitophila* Hering, 1935 – N
- *unguicornis* Hendel, 1932 – R1, R4

subgenus *Dizygomyza* Hendel, 1920

- *bimaculata* (Meigen, 1830) – R1, R4
- *brisiacaca* Nowakowski, 1973 – N
- *caricicola* (Hering, 1926) – R4
- *chaixiana* (Hering, 1956) – N
- *crassiseta* (Strobl, 1900) – R1
- *fasciata* (Strobl, 1880) – R1
- *griffithsi* Nowakowski, 1967 – R1
- *hirtae* Nowakowski, 1967 – N
- *iraeos* (Robineau-Desvoidy, 1851) – R9, R10
- *luctuosa* (Meigen, 1830) – R1
- *luzulae* (Groschke & Hering, 1957) – R1
- *morosa* (Meigen, 1830) – R1, R9, R10
- *silvatica* (Groschke & Hering, 1957) – N
- *spinata* (Groschke, 1954) – R1
- *suturalis* (Hendel, 1931) – R2

subgenus *Icteromyza* Hendel, 1931

- *geniculata* (Fallén, 1823) – R4, R9, R10
- *rozkosnyi* Černý, 2007 – N

subgenus *Phytagromyza* Hendel, 1920

- *flavocingulata* (Strobl, 1909) – N

subgenus *Poemyza* Hendel, 1931

- *alpina* Nowakowski, 1967 – R1
- *atra* (Meigen, 1830) – R1, R9, R10
- *beigerae* Nowakowski, 1973 – R1
- *calamagrostidis* Nowakowski, 1967 – R1
- *imbuta* (Meigen, 1838) – R9, R10
- *incisa* (Meigen, 1830) – R1
- *lateralis* (Macquart, 1835) – R1
- *lyneborgi* Spencer, 1972 – R1
- *morula* (Hendel, 1920) – N
- *muscina* (Meigen, 1830) – R9
- *phragmitidis* Nowakowski, 1967 – R6
- *pygmaea* (Meigen, 1830) – R1
- *pygmella* (Hendel, 1931) – N
- *spencerae* Zlobin, 1993 – R1
- *superciliosa* (Zetterstedt, 1860) – R9, R10, R12
- *thunebergi* Nowakowski, 1967 – N
- *vladimiri* Černý in Černý & Merz, 2007 – R6

subgenus *Xenophytomyza* Frey, 1946

- *atronitens* (Hendel, 1920) – R1
- *biseta* (Hendel, 1920) – R1, R9, R10
- *venturii* Nowakowski, 1967 – R9, R10

Chromatomyia Hardy, 1849

- *aizoon* (Hering, 1932) – R9, R10
- *alpigenae* (Hendel, 1925) – R9, R10
- *beigerae* Griffiths, 1980 – N
- *ciliata* (Hendel, 1935) – R9, R10, R16
- *fuscula* (Zetterstedt, 1838) – R1

- *gentianae* (Hendel, 1920) – R9, R10
- *gentianella* (Hendel, 1932) – R1, R9, R10, R12
- *glacialis* (Griffiths, 1964) – N
- *hoppiella* Spencer, 1990 – R1, R4, R9, R10, R15
- *horticola* (Goureau, 1851) – R1, R4, R9, R10
- *isicae* (Hering, 1962) – R1
- *milii* (Kaltenbach, 1864) – R1, R4, R9, R10
- *nigra* (Meigen, 1830) – R1, R9, R10
- *norwegica* (Rydén, 1957) – N
- *ochracea* (Hendel, 1920) – N
- *opacella* (Hendel, 1935) – R1
- *periclymeni* (Hendel, 1922) – R4, R9, R10
- *primulae* (Robineau-Desvoidy, 1851) – N
- *pseudomilii* Griffiths, 1980 – R1
- *ramosa* (Hendel, 1923) – R1, R4, R9, R10, R16
- *rhaetica* Griffiths, 1980 – N
- *saxifragae* (Hering, 1924) – R9, R10
- *soldanellae* (Stary, 1950) – R9, R10, R16
- *spenceriana* Griffiths, 1980 – N
- *styriaca* Griffiths, 1980 – N
- *succisae* (Hering, 1922) – N
- *syngenesiae* Hardy, 1849 – R9, R10
- *tschirnhausi* Griffiths, 1980 – N
- *vernalis* (Grischke & Hering, 1957) – R5
- *intonsa* Spencer, 1976 – R3
- *lituanica* Pakalniškis, 1992 – N
- *lutea* (Meigen, 1830) – R1
- *muranica* Černý, 2012 – N
- *nietzkei* Spencer, 1973 – R9, R10
- *obliqua* Hendel, 1931 – R1
- *occipitalis* Hendel, 1931 – N
- *oldenbergi* Hering, 1933 – N
- *orbona* (Meigen, 1830) – R4, R9, R10
- *pascuum* (Meigen, 1838) – N
- *pedestris* Hendel, 1931 – R6
- *phryne* Hendel, 1931 – N
- *pisivora* Hering, 1954 – N
- *polygalae* Hering, 1927 – R1, R9, R10, R12
- *pseudopygmina* (Hering, 1933) – N
- *ptarmicae* de Meijere, 1925 – R2
- *puella* (Meigen, 1830) – R6
- *pusilla* (Meigen, 1830) – R4 (as syn. *L. eupatorii* (Kaltenbach, 1873)), R9
- *pusio* (Meigen, 1830) – R7
- *richteri* Hering, 1927 – R9, R10
- *solivaga* Spencer, 1971 – N
- *sonchi* Hendel, 1931 – N
- *soror* Hendel, 1931 – N
- *strigata* (Meigen, 1830) – R4, R9, R10
- *taraxaci* Hering, 1927 – R1
- *taurica* Zlobin, 2003 – N
- *trifolii* (Burgess in Comstock, 1880) – R9, R10
- *urophorina* Mik, 1894 – R9, R10
- *valerianae* Hendel, 1932 – N
- *virgula* Frey, 1946 – R6
- *wachtlii* Hendel, 1920 – N
- *yasumatsui* Sasakawa, 1972 – R4

***Galiomyza* Spencer, 1981**

- *galiivora* (Spencer, 1969) – R1
- *morio* (Brischke, 1880) – R1, R9, R10
- *violiphaga* (Hendel, 1932) – R9, R10

***Gymnophytomyza* Hendel, 1936**

- *heteroneura* (Hendel, 1920) – R9, R10

***Liriomyza* Mik, 1894**

- *aculeolata* Zlobin, 2003 – N
- *amoena* (Meigen, 1830) – N
- *approximata* (Hendel, 1920) – R1
- *artemisicola* de Meijere, 1924 – R4, R9, R10, R16
- *balcanica* (Strobl, 1898) – R4
- *bryoniae* (Kaltenbach, 1858) – R5
- *buhri* Hering, 1937 – N
- *centaureae* Hering, 1927 – N
- *cicerina* (Rondani, 1875) – R9, R10
- *congesta* (Becker, 1903) – R1, R4, R9, R10
- *demeijerei* Hering, 1930 – R6
- *dendranthema* Nowakowski, 1975 – N
- *dianthicola* (Venturi, 1949) – R5
- *dracunculi* Hering, 1932 – R4
- *erucifolii* de Meijere, 1944 – R1, R4
- *europaea* Zlobin, 2003 – N
- *flaveola* (Fallén, 1823) – R1, R4, R9, R10
- *globulariae* Hendel, 1931 – R9, R10, R12
- *graminivora* Hering 1949 – N
- *hampsteadensis* Spencer, 1971 – N
- *hieracii* (Kaltenbach, 1862) – R9, R10
- *hieracivora* Spencer, 1971 – N
- *huidobrensis* (Blanchard, 1926) – R9, R10
- *infuscata* Hering, 1926 – N

***Metopomyza* Enderlein, 1936**

- *flavonotata* (Haliday, 1833) – R1
- *nigriorbita* (Hendel, 1931) – R1
- *scutellata* (Fallén, 1823) – R1
- *xanthaspoides* (Frey, 1946) – N
- *xanthaspis* (Loew, 1858) – R1, R9, R10

***Napomyza* Westwood, 1840**

- *achilleanella* von Tschirnhaus, 1992 – R6
- *bellidis* Griffiths, 1967 – R1
- *carotae* Spencer, 1966 – R9, R10
- *cichorii* Spencer, 1966 – R1 R4, R9, R10
- *elegans* (Meigen, 1830) – R1
- *hirticornis* Hendel, 1932 – R9, R10
- *inquilina* (Kock, 1966) – N
- *lateralis* (Fallén, 1823) – R9, R10
- *maritima* von Tschirnhaus, 1981 – R1
- *merita* Zlobin, 1993 – R6
- *nigriceps* van der Wulp, 1871 – R1
- *scrophulariae* Spencer, 1966 – R6
- *tripolii* Spencer, 1966 – R1

***Nemorimyza* Frey, 1946**

- *posticata* (Meigen, 1830) – N

***Phytobia* Lioy, 1864**

- *cambii* (Hendel, 1931) – N
- *mallochi* (Hendel, 1924) – R9, R10, R12

***Phytoliriomyza* Hendel, 1931**

- *arctica* (Lundbeck, 1901) – R1, R9, R10
- *melampyga* (Loew, 1869) – R1, R9, R10
- *perpusilla* (Meigen, 1830) – R1

***Phytomyza* Fallén, 1810**

- *abdita* Hering, 1927 – R9, R10, R12, R15
- *abdominalis* Zetterstedt, 1848 – N
- *adenostylis* Hering, 1926 – R9, R10, R16
- *adjuncta* Hering, 1928 – R9, R10
- *affinis* Fallén, 1823 – R1, R9, R10
- *albipennis* Fallén, 1823 – R1
- *alpestris* Hendel, 1920 – R9, R10, R12
- *alpina* Groschke & Hering, 1957 – R9, R10
- *angelicae* Kaltenbach, 1872 – R1, R9, R10, R16
- *angelicastri* Hering, 1932 – N
- *angelicivora* Hering, 1924 – N
- *aquilegiae* Hardy, 1849 – R9, R10
- *arnicae* Hering, 1925 – R9, R10, R16
- *arnicicola* Lunndquist, 1949 – N
- *artemisivora* Spencer, 1971 – R1, R9, R10, R16
- *aurei* Hering, 1931 – R9, R10
- *bellidina* Hendel, 1934 – N
- *bipunctata* Loew, 1858 – R9, R10
- *brischkei* Hendel, 1922 – R1, R9, R10
- *buhriella* Spencer, 1969 – R6
- *calthivora* Hendel, 1934 – R1
- *calthophila* Hering, 1931 – R1
- *campanulae* Hendel, 1920 – R4
- *carlestolrai* Černý, 2007 – N
- *chaerophylli* Kaltenbach, 1856 – R1, R9, R10
- *chaerophylliana* Hering, 1931 – R6
- *cirsii* Hendel, 1923 – N
- *clematidis* Kaltenbach, 1859 – R9, R10
- *coniopais* Hering, 1931 – N
- *continua* Hendel, 1920 – R9, R10
- *crassisetata* Zetterstedt, 1860 – R1
- *digitalis* Hering, 1925 – R9, R10
- *erigerophila* Hering, 1927 – N
- *eumorpha* Frey, 1946 – R1
- *evanescens* Hendel, 1920 – R1
- *fallaciosa* Brischke, 1880 – R1
- *farfarae* Hendel, 1935 – N
- *ferina* Spencer, 1971 – N
- *flavicornis* Fallén, 1823 – R1, R4
- *flavofemorata* Strobl, 1893 – N
- *glechomae* Kaltenbach, 1862 – R1, R9, R10
- *griffithsi* Spencer, 1963 – R6
- *gymnostoma* Loew, 1858 – R1, R4
- *hendeli* Hering, 1923 – N
- *heracleana* Hering, 1937 – R1
- *hirsuta* Spencer, 1976 – R1
- *homogyneae* Hering, 1927 – R1
- *hoppi* Hering, 1925 – R9, R10, R12

- *ilicis* Curtis, 1846 – R4, R9, R10
- *kaltenbachi* Hendel, 1922 – R9, R10, R12
- *krygeri* Hering, 1949 – N
- *kurilensis* Iwasaki 2000 – R2
- *kyffhusana* Hering, 1928 – R4,
- *latifolii* Groschke & Hering, 1957 – R9, R10
- *leucanthemi* Hering, 1935 – N
- *marginella* Fallén, 1823 – R9, R10, R12
- *medicaginis* Hering, 1925 – R7
- *melana* Hendel, 1920 – N
- *minuscula* Goureau, 1851 – R9, R10
- *monticola* Černý, 2007 – N
- *mutellinae* Beiger, 1961 – N
- *mylini* Hering, 1954 – N
- *narcissiflorae* Hering, 1928 – R9, R10, R12, R15
- *nigrifemur* Hering, 1934 – N
- *nigripennis* Fallén, 1823 – R1, R4, R9, R10
- *nigritula* Zetterstedt, 1838 – R9, R10
- *notata* Meigen, 1830 – R1, R9, R10
- *origani* Hering, 1931 – R1, R4
- *paraciliata* (Godfray, 1985) – N
- *pauliloewii* Hendel, 1920 – R1
- *penicilla* Hendel, 1935 – R9, R10
- *petoei* Hering, 1924 – R9, R10
- *picridocecis* Hering, 1957 – N
- *pimpinellae* Hendel, 1924 – N
- *plantaginis* Robineau-Desvoidy, 1851 – R1, R4, R9, R10
- *platonoffi* Spencer, 1976 – R2
- *platystoma* (Hendel, 1920) – R1
- *pubicornis* Hendel, 1920 – R1
- *pullula* Zetterstedt, 1848 – R1, R4
- *pulsatillae* Hering, 1924 – R12
- *ramunculi* (Schrank, 1803) – R1, R4, R9, R10
- *ramunculicola* Hering, 1949 – R1
- *ranunculivora* Hering, 1932 – R6
- *rapunculi* Hendel, 1927 – R1
- *rectae* Hendel, 1924 – R9, R10
- *rhabdophora* Griffiths, 1964 – R1
- *robustella* Hendel, 1936 – R6
- *rostrata* Hering, 1934 – R1
- *rufipes* Meigen, 1830 – R1, R9, R10
- *salviae* (Hering, 1924) – R6
- *sedi* Kaltenbach, 1869 – R1
- *sedicola* Hering, 1924 – R9, R10
- *senecionis* Kaltenbach, 1869 – N
- *sitchensis* Griffiths, 1973 – N
- *soenderupi* Hering, 1941 – R1
- *solidaginis* Hendel, 1920 – R9, R10
- *spondylii* Robineau-Desvoidy, 1851 – R4, R9, R10
- *tenella* Meigen, 1830 – R1, R4, R9, R10
- *tetrasticha* Hendel, 1927 – R6
- *thalictri* Escher-Kündig in de Rougemont, 1912 – R9, R10, R12, R15
- *thymi* Hering, 1928 – R9, R10, R12, R15
- *trollii* Hering, 1930 – R9, R10, R16
- *trolliivora* Hering, 1935 – R9, R10
- *varipes* Macquart, 1835 – R1

- *veronicicola* Hering, 1925 – R4
- *virgaureae* Hering, 1926 – R9, R10, R12
- *vitalbae* Kaltenbach, 1872 – R1, R4, R9, R10
- *wahlgreni* Rydén, 1944 – R1, R9, R10
- *zarzyckii* Nowakowski, 1975 – R2

***Pseudonapomyza* Hendel, 1920**

- *atra* (Meigen, 1830) – R1
- *balkanensis* Spencer, 1973 – R9, R10

- *errata* Zlobin, 1993 – R1, R4
- *eurasiatica* Zlobin, 2003 – R1, R4
- *europaea* Spencer, 1973 – R1, R9, R10, R12
- *moraviae* Černý, 1992 – N
- *strobliana* Spencer, 1973 – R1
- *vota* Spencer, 1973 – R1, R4

***Selachops* Wahlberg, 1844**

- *flavocinctus* Wahlberg, 1844 – R9, R10